

DP series high-precision programmable **DC** power supply

1U-5KW high power density



- High-precision
- Superior quality
- High power density

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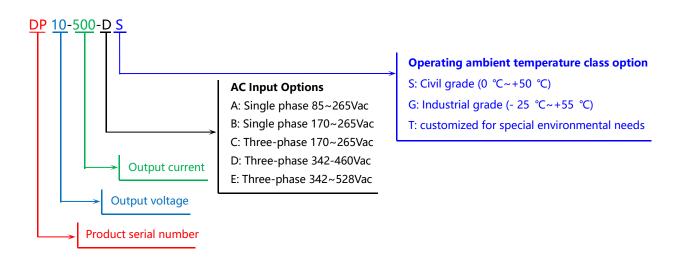
Product introduction

DP series high-precision programmable DC power supply is a cost-effective product with high-quality, high-power-density, multi-function, launched by our company to meet the needs of our customers. The maximum power of 1U model can reach 5KW, and the weight is only 7.5Kg. The specification voltage of this series of products can reach up to 3050V, and the maximum current can reach 525A. It built-in PFC power factor correction circuit, and the input voltage can meet the wide range of applications in the global power grid.

This series of power supply has constant voltage (CV) and constant current (CC) operating modes, and automatically switches between operating modes. It also has built-in user-settable constant power (CP) limit mode, built-in analog program control (5V/10V/5K/10K) signal, USB, LAN, CAN, RS-232/485 communication interface, and supports Modbus-RTU and SCPI industry standard communication protocol. Users can enter the menu to select their own protocol and communication mode as required.

Product features	
■ 19" rack mount capability for ATE and OEM application	High resolution 16 bit ADC& DAC
Active PFC (0.98 typical)	LIST programming dynamic output
Output Voltage up to 3050V, Current up to 525A	CV/CC/CP operation modes
■ Built-in LAN, USB, RS-232/RS-485,CAN Interface	■ Voltage and current slope control
OLED display screen with 5-digit display	■ Internal resistance programming simulation
Finally set the memory function; Timer function	■ Support Modbus-RTU & SCPI industry communication protocols
Automatic start/safe start: user selectable	■ Isolation analog programming and monitoring

Product selection function and optional model description



■ DP150-7====150V/7A/1050W	DP1200-0.5==1200V/0.5A/600W
■ DP200-5====200V/5A/1000W	DP1500-0.5==1500V/0.5A/750W
DP300-3.5===300V/3.5A/1050W	DP1500-0.7==1500V/0.7A/1050W
DP400-2.5===400V/2.5A/1000W	DP2000-0.3==2000V/0.3A/600W
DP500-2====500V/2A/1000W	DP2000-0.5==2000V/0.5A/1000W
DP600-1.7===600V/1.7A/1020W	DP2500-0.4==2500V/0.4A/1000W
DP1000-0.6==1000V/0.6A/600W	DP3000-0.2==3000V/0.2A/600W
DP1000-1===1000V/1A/1000W	DP3000-0.3==3000V/0.3A/900W
■ DP100-17===100V/17A/1700W	■ DP1000-1.7==1000V/1.7A/1700W
■ DP150-11.2==150V/11.2A/1680W	■ DP1200-1===1200V/1A/1200W
■ DP200-8.5===200V/8.5A/1700W	■ DP1200-1.4==1200V/1.4A/1680W
■ DP300-5.6===300V/5.6A/1680W	■ DP1500-1.1===1500V/1.1A/1650W
■ DP400-4.2===400V/4.2A/1680W	■ DP2000-0.85=2000V/0.85A/1700W
■ DP500-3.4===500V/3.4A/1700W	■ DP2500-0.68=2500V/0.68A/1700W
DP600-2.8===600V/2.8A/1680W	■ DP3000-0.55=3000V/0.55A/1650W
	 ■ DP200-5====200V/5A/1000W ■ DP300-3.5===300V/3.5A/1050W ■ DP400-2.5===400V/2.5A/1000W ■ DP500-2====500V/2A/1000W ■ DP600-1.7===600V/1.7A/1020W ■ DP1000-0.6==1000V/0.6A/600W ■ DP1000-1===1000V/1A/1000W ■ DP1000-1===100V/17A/1700W ■ DP150-11.2==150V/11.2A/1680W ■ DP200-8.5===200V/8.5A/1700W ■ DP300-5.6===300V/5.6A/1680W ■ DP400-4.2===400V/4.2A/1680W ■ DP500-3.4===500V/3.4A/1700W

2700W series		
■ DP10-270===10V/270A/2700W	■ DP100-27===100V/27A/2700W	■ DP1000-2.7==1000V/2.7A/2700W
■ DP20-135===20V/135A/2700W	■ DP150-18===150V/18A/2700W	■ DP1200-2===1200V/2A/2400W
■ DP30-90====30V/90A/2700W	■ DP200-14===200V/14A/2800W	■ DP1500-1.8==1500V/1.8A/2700W
■ DP40-68====40V/68A/2720W	■ DP300-9====300V/9A/2700W	DP2000-1.4==2000V/1.4A/2800W
■ DP50-55====50V/55A/2750W	■ DP400-7====400V/7A/2800W	■ DP2500-1===2500V/1A/2500W
■ DP60-45====60V/45A/2700W	■ DP500-5.5===500V/5.5A/2750W	■ DP3000-0.9===3000V/0.9A/2700V
■ DP80-34====80V/34A/2720W	■ DP600-4.5===600V/4.5A/2750W	
3400W series		
DP10-340===10V/340A/3400W	DP100-34===100V/34A/3400W	DP1000-3.4===1000V/3.4A/3400V
DP20-170===20V/170A/3400W	□ DP150-23===150V/23A/3450W	■ DP1200-2.8===1200V/2.8A/3360\
DP30-112===30V/112A/3360W	DP200-17===200V/17A/3400W	□ DP1500-2.3===1500V/2.3A/3450\
DP40-85====40V/85A/3400W	DP300-11.5==300V/11.5A/3450W	■ DP2000-1.7==2000V/1.7A/3400W
DP50-68====50V/68A/3400W	DP400-8.5===400V/8.5A/3400W	■ DP2500-1.35=2500V/1.35A/3375V
DP60-56====60V/56A/3360W	□ DP500-6.8===500V/6.8A/3400W	■ DP3000-1.1=3000V/1.1A/3300W
DP80-42====80V/42A/3360W	□ DP600-5.6===600V/5.6A/3360W	
5000W series		
DP10-500===10V/500A/5000W	■ DP100-50===100V/50A/5000W	■ DP1000-5===1000V/5A/5000W
DP20-250===20V/250A/5000W	■ DP150-34===150V/34A/5100W	■ DP1200-4.2===1200V/4.2A/5040V
DP30-170===30V/170A/5100W	■ DP200-25===200V/25A/5000W	■ DP1500-3.4===1500V/1.7A/5100\
DP40-125===40V/125A/5000W	■ DP300-17===300V/17A/5000W	■ DP2000-2.5===2000V/2.5A/5000\
DP50-100===50V/100A/5000W	■ DP400-13===400V/13A/5200W	■ DP2500-2====2500V/2A/5000W
DP60-85====60V/85A/5100W	■ DP500-10===500V/10A/5000W	■ DP3000-1.7===3000V/1.7A/5100\
■ DP80-65====80V/65A/5200W	■ DP600-8.5===600V/8.5A/5100W	

Note: Please determine the model suffix letter according to the actual input voltage and temperature class requirements, when you place an order.

Specifications



DP 1000W series technical indicators (10V-400V)

Voltage adjustable range (*1)														
Content a figurate	OUTPUT RATING		10-100	20-50	30-35	40-25	50-20	60-17	80-13	100-10	150-7	200-5	300-3.5	400-2.5
Note Property P	Voltage adjustable range (*1)	V	0~10.5	0~21	0~32	0~42	0 ~ 53	0 ~ 63	0~84	0 ~ 105	0~158	0~210	0~315	0~420
Note 100	Current adjustable range (*2)	A	0~105	0 ~ 53	0~37	0~27	0~21	0~18	0~14	0~11	0~7.5	0 ~ 5.5	0~3.8	0~2.7
Prove Fixed (Typ) 1		W	1000								1000			
Professional Content Function Functio	INPUT CHARACTERISTICS		10-100	20-50	30-35	40-25	50-20	60-17	80-13	100-10	150-7	200-5	300-3.5	400-2.5
Professional poly Pro	Input voltage/frequency		A: Single	phase 85~265	Vac								•	
CONSTANTOLIZED NOTE 1	Power Factor (Typ)		0.99@100V	ac 0.98@200°	Vac, rated ou	tput power.								
Mix. Line regulatios		%	85/87	86/88	86/88	86/88	86/88	86/88	86/88	87/89	87/89	87/89	87/89	87/89
Mix. Load egal bita	CONSTANT VOLTAGE MOD	DE	10-100	00 20-50 30-35 40-25 50-20 60-17 80-13 100-10 150-7 200-5 300-3.5 400-2.5								400-2.5		
Ripple and noise	Max. Line regulation (*3)		0.01% of ra	ted output vol	tage									
Righer rans. 51k - MHz	Max. Load regulation (*4)		0.01% of ra	ted output vol	tage+5mV									
Temperature coefficient Companie Compa	Ripple and noise (p-p, 20MHz)	mV	75	80	80	80	80	100	100	120	120	150	150	250
Temperature coefficient Comparison Co	Ripple r.m.s. 5Hz~1MHz	mV	10	12	12	12	12	20	20	20	20	30	30	50
Temperature stability	Temperature coefficient		50PPM/°C	from rated out	put voltage, fo	ollowing 30 m	inutes warm-ı	ıp.	1	1	1	1	l	
Name									ine, load & ter	mp.				
Sense compensation (*5)								-		4				
Rise response time (*6) mS 20 20 20 20 20 20 20 20 20 20 20 20 20	1			1						5	5	5	5	5
Full load mS 30 30 60 60 60 60 60 60	-										-			100
time (*7) No load mS 600 1000 1500 2000 2500 2700 3000 3600 3900 4500 4600 Transient response time mS 2mS (Time for output voltage to recover within 0.5% of its rated output for a load change 10-90% of rated output current. ***Start up delay*** Second Seco	1													220
Transient response time m8 s2mS (Time for output voltage to recover within 0.5% of its rated output for a load change 10-90% of rated output current. Start up delay	: (*7)													
Start up delay \$ 65. (Turn on the power switch, the time when the power starts and enters standby mode) CONSTANT CURRENT MODE 10-100 20-50 30-35 40-25 50-20 60-17 80-13 100-10 150-7 200-5 300-35 400-35	110 loud													
Max. Line regulation (*3) 0.05% of rated output current. Max. Load regulation Models above 8A: 0.08% of rated output current; Models within 8A: 0.02% of rated output current+5mA Ripple r.m.s. 5Hz-1MHz mA ≤300 ≤100 ≤60 ≤50 ≤35 ≤20 ≤15 ≤15 ≤10 ≤10 ≤10 ≤10 ≤10 Temperature coefficient 150V-200V model: 100PPM.ºC from rated output current, following 30 minutes warm-up. 150V-200V model: 200PPM.ºC from rated output current, following 30 minutes warm-up. Temperature stability 0.01% of rated lout over 8hrs. interval following 30 minutes warm-up. 10V-100V model: Less than ±0.25% of rated output current over 30 minutes following power on. 150V-200V model: Less than ±0.25% of rated output current over 30 minutes following power on. 150V-200V model: Less than ±0.15% of rated output current over 30 minutes following power on. 150V-200V model: Less than ±0.15% of rated output current over 30 minutes following power on. 150V-200V model: Less than ±0.15% of rated output current over 30 minutes following power on. 150V-200V model: Less than ±0.15% of rated output current over 30 minutes following power on. 150V-200V model: Less than ±0.15% of rated output current over 30 minutes following power on. 150V-200V model: Less than ±0.15% of rated output current over 30 minutes following power on. 150V-200V model: Less than ±0.15% of rated output current over 30 minutes following power on. 150V-200V model: Less than ±0.15% of rated output current over 30 minutes following power on. 150V-200V model: Less than ±0.15% of rated output current over 30 minutes following power on. 150V-200V model: Less than ±0.15% of rated output current over 30 minutes following power on. 150V-200V model: Less than ±0.15% of rated output current over 30 minutes following power on. 150V-200V model: Less than ±0.15% of rated output current over 30 minutes following power on. 150V-200V model: Less than ±0.15% of rated output current over 30 minutes following power on. 150V-10V model: Less than ±0.15% of rated output current ove														
Max. Load regulation Models Max. Load regulation Max.	CONSTANT CURRENT MOI	ЭE	10-100	20-50	30-35	40-25	50-20	60-17	80-13	100-10	150-7	200-5	300-3.5	400-2.5
Ripple r.m.s. SHz-1MHz mA \$300 \$100 \$60 \$50 \$35 \$20 \$15 \$15 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10	Max. Line regulation (*3)		0.05% of ra	ted output cur	rent.							•		
Temperature coefficient - 10V-100V model: 100PPM/°C from rated output current, following 30 minutes warm-up. 150V-200V model: 70PPM/°C from rated output current, following 30 minutes warm-up. 150V-200V model: 70PPM/°C from rated output current over 30 minutes warm-up. 10V-100V model: Less than ±0.25% of rated output current over 30 minutes following power on. 150V-200V model: Less than ±0.25% of rated output current over 30 minutes following power on. 150V-200V model: Less than ±0.15% of rated output current over 30 minutes following power on. 150V-200V model: Less than ±0.15% of rated output current over 30 minutes following power on. 150V-200V model: Less than ±0.15% of rated output current over 30 minutes following power on. 150V-200V model: Less than ±0.15% of rated output current over 30 minutes following power on. 150V-200V model: Less than ±0.15% of rated output current over 30 minutes following power on. 150V-200V model: Less than ±0.15% of rated output current over 30 minutes following power on. 150V-200V model: Less than ±0.15% of rated output current over 30 minutes following power on. 150V-200V model: Less than ±0.15% of rated output current over 30 minutes following power on. 150V-200V model: Less than ±0.15% of rated Vout. 150V-200V model: Less th	Max. Load regulation		Models abo	ve 8A: 0.08%	of rated outpu	it current; Mo	dels within 8A	A: 0.02% of rat	ed output curr	rent+5mA				
Temperature coefficient	Ripple r.m.s. 5Hz~1MHz	mA	≤300	≤100	≤60	≤50	≤35	≤20	≤15	≤15	≤10	≤10	≤10	≤10
Temperature stability 0.01% of rated lout over 8hrs. interval following 30 minutes warm-up. Constant line, load & temperature. Warm-up drift 10V-100V model: Less than ±0.25% of rated output current over 30 minutes following power on. 150V-200V model: Less than ±0.15% of rated output current over 30 minutes following power on. ANALOG PROGRAMMING AND MONITORING (ISOLATED FROM THE OUTPUT) Vout voltage programming 0-100%, 0-5V or 0-10V, user selectable. Accuracy and linearity: ±0.15% of rated Vout. Jout voltage programming 0-100%, 0-5V or 0-10V, user selectable. Accuracy and linearity: ±0.5% of rated Vout. Jout resistor programming 0-100%, 0-5/10Kohm full scale, user selectable. Accuracy and linearity: ±0.5% of rated Vout. Jout voltage monitor 0-5V or 0-10V, user selectable. Accuracy: ±0.5% of rated Vout. Joutput voltage monitor 0-5V or 0-10V, user selectable. Accuracy: ±0.5% of rated Vout. Joutput current monitor 0-5V or 0-10V, user selectable. Accuracy: ±0.5% of rated Vout. FUNCTIONS AND FEATURES Series/parallel operation Support series/parallel operation of the same specification and model to expand voltage, current and power; Parallel connection is used for automatic current sharing in master-slave operation mode. The power within the rated power range can be set to achieve constant power mode Output resistance control Emulates series resistance. Resistance range: 1-1000mΩ. Programmable output rise and fall slopes Programming range: 0.0001-999 9V/mS or A/mS.	Temperature coefficient					-		_	-					
Warm-up drift	Temperature stability		0.01% of ra	ted Iout over 8	Shrs. interval f	ollowing 30 n	ninutes warm-	up. Constant l	ine, load & ter	mperature.				
Vout voltage programming 0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: ±0.15% of rated Vout. Vout resistor programming 0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: ±0.4% of rated Iout. Vout resistor programming 0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: ±0.5% of rated Vout. Iout resistor programming 0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: ±0.5% of rated Vout. Output voltage monitor 0~5V or 0~10V, user selectable. Accuracy: ±0.5% of rated Vout. Output current monitor 0~5V or 0~10V, user selectable. Accuracy: ±0.5% of rated Iout. Remote switch on/off High and low level or dry contact signal control power switch FUNCTIONS AND FEATURES Series/parallel operation Support series/parallel operation of the same specification and model to expand voltage, current and power; Parallel connection is used for automatic current sharing in master-slave operation mode. Constant power control The power within the rated power range can be set to achieve constant power mode Output resistance control Emulates series resistance. Resistance range: 1~1000mΩ. Voltage and current slope Programmable output rise and fall slopes Programming range: 0 0001~999 9V/mS or A/mS	Warm-up drift					•			• •					
O-100%, 0-5V or 0-10V, user selectable. Accuracy and linearity: ±0.4% of rated Iout. Vout resistor programming	ANALOG PROGRAMMING	AND M	ONITORING	G (ISOLATEI	FROM THI	E OUTPUT)								
O-100%, 0-5V or 0-10V, user selectable. Accuracy and linearity: ±0.4% of rated Iout. Vout resistor programming				•			nd linearity:	±0.15% of rate	ed Vout.					
Vout resistor programming 0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: ±0.5% of rated Vout. Iout resistor programming 0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: ±0.5% of rated Iout. Output voltage monitor 0~5V or 0~10V, user selectable. Accuracy: ±0.5% of rated Vout. Output current monitor 0~5V or 0~10V, user selectable. Accuracy: ±0.5% of rated Iout. Remote switch on/off High and low level or dry contact signal control power switch FUNCTIONS AND FEATURES Series/parallel operation Support series/parallel operation of the same specification and model to expand voltage, current and power; Parallel connection is used for automatic current sharing in master-slave operation mode. Constant power control The power within the rated power range can be set to achieve constant power mode Output resistance control Emulates series resistance. Resistance range: 1~1000mΩ. Voltage and current slope Programmable output rise and fall slopes Programming range: 0.0001~999 9V/mS or A/mS														
Iout resistor programming 0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: ±0.5% of rated Iout. Output voltage monitor 0~5V or 0~10V, user selectable. Accuracy: ±0.5% of rated Vout. Output current monitor 0~5V or 0~10V, user selectable. Accuracy: ±0.5% of rated Iout. Remote switch on/off High and low level or dry contact signal control power switch FUNCTIONS AND FEATURES Series/parallel operation Support series/parallel operation of the same specification and model to expand voltage, current and power; Parallel connection is used for automatic current sharing in master-slave operation mode. Constant power control The power within the rated power range can be set to achieve constant power mode Output resistance control Emulates series resistance. Resistance range: 1~1000mΩ. Voltage and current slope Programmable output rise and fall slopes Programming range: 0.0001~999 9V/mS or A/mS														
Output voltage monitor 0~5V or 0~10V, user selectable. Accuracy: ±0.5% of rated Vout. Output current monitor 0~5V or 0~10V, user selectable. Accuracy: ±0.5% of rated Iout. Remote switch on/off High and low level or dry contact signal control power switch FUNCTIONS AND FEATURES Series/parallel operation Support series/parallel operation of the same specification and model to expand voltage, current and power; Parallel connection is used for automatic current sharing in master-slave operation mode. Constant power control The power within the rated power range can be set to achieve constant power mode Output resistance control Emulates series resistance. Resistance range: 1~1000mΩ. Voltage and current slope Programmable output rise and fall slopes. Programming range: 0.0001~999 9V/mS or A/mS	Iout resistor programming		0~100%, 0~	-5/10Kohm fu	ll scale, user s	electable. Acc	uracy and line	earity: ±0.5%	of rated Iout.					
FUNCTIONS AND FEATURES Support series/parallel operation of the same specification and model to expand voltage, current and power; Parallel connection is used for automatic current sharing in master-slave operation mode.	Output voltage monitor		0~5V or 0~	10V, user sele	ctable. Accura	cy: ±0.5% of	rated Vout.							
FUNCTIONS AND FEATURES Series/parallel operation Support series/parallel operation of the same specification and model to expand voltage, current and power; Parallel connection is used for automatic current sharing in master-slave operation mode. Constant power control The power within the rated power range can be set to achieve constant power mode Output resistance control Emulates series resistance. Resistance range: 1~1000mΩ. Voltage and current slope Programmable output rise and fall slopes. Programming range: 0.0001~999.9V/mS or A/mS.	Output current monitor		0~5V or 0~	10V, user sele	ctable. Accura	cy: ±0.5% of	rated Iout.							
Series/parallel operation Support series/parallel operation of the same specification and model to expand voltage, current and power; Parallel connection is used for automatic current sharing in master-slave operation mode. Constant power control The power within the rated power range can be set to achieve constant power mode Output resistance control Emulates series resistance. Resistance range: 1~1000mΩ. Voltage and current slope Programmable output rise and fall slopes. Programming range: 0.0001~999.9V/mS or A/mS.	Remote switch on/off		High and lo	w level or dry	contact signal	l control powe	r switch							
Series/parallel operation	FUNCTIONS AND FEATURE	ES	G .	. / 11 1	. C.1		. 1 1	1, 1	14	. 1 D	11 1	10		
Output resistance control Emulates series resistance. Resistance range: 1~1000mΩ. Voltage and current slope Programmable output rise and fall slopes. Programming range: 0.0001~999.9V/mS or A/mS.	Series/parallel operation						uion and mod	ei to expand v	onage, curren	and power; P	aranei connec	tion is used to	r automatic cu	rrent
Voltage and current slope Programmable output rise and fall slopes Programming range: 0.0001~999 9V/mS or A/mS	Constant power control		The power	The power within the rated power range can be set to achieve constant power mode										
	Output resistance control		Emulates se	Emulates series resistance. Resistance range: $1{\sim}1000 \text{m}\Omega$.										
			Programma	Programmable output rise and fall slopes. Programming range: 0.0001~999.9V/mS or A/mS										
LIST dynamic output Four LIST program files can be saved, and each file can edit up to 200 steps of data; There are three execution modes: count, loop and single step.	LIST dynamic output		Four LIST 1	our LIST program files can be saved, and each file can edit up to 200 steps of data; There are three execution modes: count, loop and single step.										
Timer function 0-9999 minutes can be set	Timer function		0-9999 min	utes can be set	t									
Quick data storage/recall It can store 4 groups of commonly used working data of voltage, current and other parameters, and can be quickly accessed through the digital buttons on the	Quick data storage/recall													
Protection function - Output overvoltage protection, overcurrent protection, overload protection, over-temperature protection, short circuit protection, input undervoltage protection overvoltage protection	Protection function Output overvoltage protection, overcurrent protection, overload protection, over-temperature protection, short circuit protection, input undervoltage protection,													

DIGITAL PROGRAM CONT	ROL	10-100	20-50	30-35	40-25	50-20	60-17	80-13	100-10	150-7	200-5	300-3.5	400-2.5
Vout programming accuracy		0.05% of ra	ted output vol	tage									
Iout programming accuracy		Models with	nin 10A: 0.2%	% of rated outp	out current; N	Models above	10A: 0.1% of	rated output	current				
Vout programming resolution		0.002% of r	ated output vo	ltage									
Iout programming resolution		0.002% of r	ated output cu	rrent									
Vout readback accuracy		0.05% of ra	0.05% of rated output voltage										
Iout readback accuracy		Models with	nin 10A: 0.29	% of rated outp	out current; N	Models above	10A: 0.1% of	rated output	current				
Vout readback resolution (of rated output voltage)	F.S.	0.011%	0.011% 0.006% 0.004% 0.003% 0.002% 0.002% 0.002% 0.011% 0.007% 0.005% 0.004% 0.003%										
Iout readback resolution (of rated output current))	F.S.	0.011%	0.003%	0.003%	0.005%	0.006%	0.007%	0.010%	0.011%	0.002%	0.002%	0.004%	0.005%
Communication interface		Built-in US	B/RS-232/RS-	485/CAN inte	erface, optiona	l LAN interfa	ce; Supports N	/lodbus-RTU ส	and SCPI indu	stry standard c	communication	n protocols.	

FRONT PANEL MONITORIN	IG AND	CONTROL
Operation mode		Programmer knob,digital key and multi-function key
Display		5 digits OLED screen displays output voltage, current, power, working status and other information; Support Chinese and English menu switching display.
Voltage display accuracy		0.05% of rated output voltage±1count.
Current display accuracy		Models within 10A: 0.2% of rated output current±1count.; Models above 10A: 0.1% of rated output current±1count.
Voltage setting accuracy		0.05% of rated output voltage
Current setting accuracy		Models within 10A: 0.2% of rated output current; Models above 10A: 0.1% of rated output current
Setpoint resolution		5 digits OLED: display format: 99999, current value decreases by one digit, decimal point automatically increases by one digit, maximum resolution: 1mV; 1mA
Display value resolution		5 digits OLED: display format: 99999, current value decreases by one digit, decimal point automatically increases by one digit, maximum resolution: 1mV;1mA

ENVIRONMENT APPLICAB	ENVIRONMENT APPLICABILITY								
Operating temperature	°C	S: Civil grade $(0^{\circ}C \sim +50^{\circ}C)$; G: Industrial grade $(-25^{\circ}C \sim +55^{\circ}C)$							
Storage temperature	°C	S: Civil grade $(-20^{\circ}\text{C} \sim +70^{\circ}\text{C})$; G: Industrial grade $(-30^{\circ}\text{C} \sim +85^{\circ}\text{C})$							
Operating humidity	%	20~90% RH (no condensation).							
Storage humidity	%	10~95% RH (no condensation).							
Cooling		Forced air cooling by internal fans. Air flow direction: from Front panel to power supply rear							

MECHANICAL		
Dimensions (WxHxD)	mm	W: 420, H: 43.5, D: 443 (Without busbars and busbars cover)
Weight	Kg	About 5.5Kg

DP 1000W series technical indicators (500V-3000V)

	500-2	600-1.7	1000-0.6	1000-1	1200-0.5	1500-0.5	1500-0.7	2000-0.3	2000-0.5	2500-0.4	3000-0.2	3000-0.3
V	0 ~ 525	0 ~ 630	0 ~ 1050	0~1050	0 ~ 1260	0 ~ 1575	0 ~ 1575	0~2100	0~2100	0 ~ 2550	0~3050	0 ~ 3050
A	0~2.1	0~1.8	0~0.66	0~1.1	0~0.55	0~0.55	0~0.8	0 ~ 0.33	0~0.55	0~0.44	0~0.21	0~0.33
W	1000	1020	600	1000	600	750	1050	600	1000	1000	600	900
cs.	500-2	600-1.7	1000-0.6	1000-1	1200-0.5	1500-0.5	1500-0.7	2000-0.3	2000-0.5	2500-0.4	3000-0.2	3000-0.3
	A: Single 1	phase 85~265	Vac									
	0.99@100V	ac 0.98@200	Vac, rated out	put power.								
%	87/89	87/89	87/89	87/89	87/89	88/90	87/89	88/90	87/89	88/90	87/89	88/90
DE	500-2	600-1.7	1000-0.6	1000-1	1200-0.5	1500-0.5	1500-0.7	2000-0.3	2000-0.5	2500-0.4	3000-0.2	3000-0.3
	0.01% of ra	ted output vol	tage									
	0.01% of ra	ted output vol	tage+5mV									
mV	450	500	650	650	700	1000	1000	1500	1500	2000	2500	2500
mV	90	100	150	150	170	200	200	300	300	450	600	600
	50PPM/°C	from rated out	put voltage, fo	ollowing 30 m	inutes warm-u	p.						
	0.01% of ra	ted Vout over	8hrs interval f	ollowing 30 m	inutes warm-	ıp. Constant li	ne, load & ten	np.				
	Less than 0.	.01% of rated	output voltage	+2mV over 30) minutes follo	wing power o	n.					
V	5	5	5									
mS	100	100	100	100	150	150	150	150	150	200	200	250
mS	200	200	200	200	220	220	220	250	250	250	280	280
mS	5000	5500	6000	6000	6500	7000	7000	8000	8000	9000	10000	10000
mS	≤2mS (Tir	≤2mS (Time for output voltage to recover within 0.5% of its rated output for a load change 10~90% of rated output current.)										
≤	6S (Turn o	n the power sv	vitch, the time	when the pov	ver starts and	enters standby	mode)					
	A A CS C C C C C C C C	A 0~2.1 A 0~2.1 W 1000 SS 500-2 A: Single 0.99@100V % 87/89 DDE 500-2 0.01% of ra mV 450 mV 90 50PPM/°C 0.01% of ra U.01% of ra mV 450 mV 90 50POM/°C 0.01% of ra Less than 0 V 5 mS 100 mS 200 mS 5000 mS 5000	A 0~2.1 0~1.8 N 1000 1020 SS 500-2 600-1.7 A: Single phase 85~265\ 0.99@100Vac 0.98@200\ % 87/89 87/89 DDE 500-2 600-1.7 0.01% of rated output volver 0.01% of rated output volver mV 450 500 mV 90 100 50PPM/°C from rated out 0.01% of rated Vout over Less than 0.01% of rated volver V 5 5 mS 100 100 mS 200 200 mS 5000 5500 mS ≤2mS (Time for output volver)	A 0~2.1 0~1.8 0~0.66 W 1000 1020 600 SS 500-2 600-1.7 1000-0.6 A: Single phase 85~265Vac 0.99@100Vac 0.98@200Vac, rated out % 87/89 87/89 87/89 DDE 500-2 600-1.7 1000-0.6 0.01% of rated output voltage 0.01% of rated output voltage+5mV mV 450 500 650 mV 90 100 150 50PPM/°C from rated output voltage, for 100 100 100 100 mS 200 200 200 mS 5000 5500 6000 mS ≤2mS (Time for output voltage to reco	A 0~2.1 0~1.8 0~0.66 0~1.1 W 1000 1020 600 1000 SS 500-2 600-1.7 1000-0.6 1000-1 A: Single phase 85~265Vac 0.99@100Vac 0.98@200Vac, rated output power. % 87/89 87/89 87/89 87/89 DDE 500-2 600-1.7 1000-0.6 1000-1 0.01% of rated output voltage 0.01% of rated output voltage 0.01% of rated output voltage 0.01% of rated output voltage, following 30 m W 450 500 650 650 mV 90 100 150 150 50PPM/°C from rated output voltage, following 30 m 0.01% of rated Vout over 8hrs interval following 30 m Less than 0.01% of rated output voltage+2mV over 30 ms V 5 5 5 mS 100 100 100 100 100 mS 200 200 200 200 mS 5000 5500 6000 6000 mS ≤2mS (Time for output voltage to recover within 0.5	A 0~2.1 0~1.8 0~0.66 0~1.1 0~0.55 W 1000 1020 600 1000 600 SS 500-2 600-1.7 1000-0.6 1000-1 1200-0.5 A: Single phase 85~265Vac 0.99@100Vac 0.98@200Vac, rated output power. % 87/89 87/89 87/89 87/89 87/89 DDE 500-2 600-1.7 1000-0.6 1000-1 1200-0.5 0.01% of rated output voltage 0.01% of rated output voltage 0.01% of rated output voltage+5mV mV 450 500 650 650 700 mV 90 100 150 150 170 50PPM/°C from rated output voltage, following 30 minutes warm-u 0.01% of rated Vout over 8hrs interval following 30 minutes warm-u Less than 0.01% of rated output voltage+2mV over 30 minutes following 30 minutes sollowing 30 minutes warm-u Less than 0.01% of rated output voltage+2mV over 30 minutes following 30 minutes warm-u SoPPM/°C from rated output voltage+2mV over 30 minutes following 30 minutes warm-u Less than 0.01% of rated output voltage+2mV over 30 minutes following 30 minutes following 30 minutes warm-u Less than 0.01% of rated output voltage+2mV over 30 minutes following 30 minutes warm-u Less than 0.01% of rated output voltage+2mV over 30 minutes following 30 minutes warm-u Less than 0.01% of rated output voltage+2mV over 30 minutes following 30 minutes warm-u Less than 0.01% of rated output voltage+2mV over 30 minutes following 30 minutes warm-u Less than 0.01% of rated output voltage+2mV over 30 minutes following 30 minutes warm-u Less than 0.01% of rated output voltage+2mV over 30 minutes following 30 minutes warm-u Less than 0.01% of rated output voltage+2mV over 30 minutes following 30 minutes warm-u Less than 0.01% of rated output voltage+2mV over 30 minutes warm-u Less than 0.01% of rated output voltage+2mV over 30 minutes warm-u Less than 0.01% of rated output voltage+2mV over 30 minutes warm-u Less than 0.01% of rated output voltage+2mV over 30 minutes warm-u Less than 0.01% of rated output voltage+2mV over 30 minutes warm-u Less than 0.01% of rated output voltage+2mV over 30 minutes warm-u Less than 0.01%	A 0~2.1 0~1.8 0~0.66 0~1.1 0~0.55 0~0.55 W 1000 1020 600 1000 600 750 SS 500-2 600-1.7 1000-0.6 1000-1 1200-0.5 1500-0.5 A: Single phase 85~265Vac 0.99@100Vac 0.98@200Vac, rated output power. % 87/89 87/89 87/89 87/89 87/89 87/89 88/90 DDE 500-2 600-1.7 1000-0.6 1000-1 1200-0.5 1500-0.5 0.01% of rated output voltage 0.01% of rated output voltage+5mV mV 450 500 650 650 700 1000 mV 90 100 150 150 170 200 50PPM/°C from rated output voltage, following 30 minutes warm-up. 0.01% of rated Vout over 8hrs interval following 30 minutes warm-up. Less than 0.01% of rated output voltage+2mV over 30 minutes following power of V 5 5 5 5 mS 100 100 100 100 150 150 150 mS 200 200 200 200 220 220 mS 5000 5500 6000 6000 6500 7000 mS ≤2mS (Time for output voltage to recover within 0.5% of its rated output for a location of the content o	A 0~2.1 0~1.8 0~0.66 0~1.1 0~0.55 0~0.55 0~0.8 W 1000 1020 600 1000 600 750 1050 SS 500-2 600-1.7 1000-0.6 1000-1 1200-0.5 1500-0.5 1500-0.7 A: Single phase 85~265Vac 0.99@100Vac 0.98@200Vac, rated output power. % 87/89 87/89 87/89 87/89 87/89 87/89 88/90 87/89 DDE 500-2 600-1.7 1000-0.6 1000-1 1200-0.5 1500-0.5 1500-0.7 0.01% of rated output voltage 0.01% of rated output voltage+5mV mV 450 500 650 650 700 1000 1000 1000 mV 90 100 150 150 170 200 200 50PPM/°C from rated output voltage, following 30 minutes warm-up. 0.01% of rated Vout over 8hrs interval following 30 minutes warm-up. Constant line, load & ten Less than 0.01% of rated output voltage+2mV over 30 minutes following power on. V 5 5 5 5	A 0 ~ 2.1 0 ~ 1.8 0 ~ 0.66 0 ~ 1.1 0 ~ 0.55 0 ~ 0.55 0 ~ 0.8 0 ~ 0.33 W 1000 1020 600 1000 600 750 1050 600 CS 500-2 600-1.7 1000-0.6 1000-1 1200-0.5 1500-0.5 1500-0.7 2000-0.3 A: Single phase 85~265Vac 0.99@100Vac 0.98@200Vac, rated output power. % 87/89 87/89 87/89 87/89 87/89 88/90 87/89 88/90 DDE 500-2 600-1.7 1000-0.6 1000-1 1200-0.5 1500-0.5 1500-0.7 2000-0.3 0.01% of rated output voltage 0.01% of rated output voltage+5mV mV 450 500 650 650 700 1000 1000 1500 mV 90 100 150 150 150 170 200 200 300 50PPM/°C from rated output voltage, following 30 minutes warm-up. 0.01% of rated Vout over 8hrs interval following 30 minutes warm-up. Constant line, load & temp. Less than 0.01% of rated output voltage+2mV over 30 minutes following power on. V 5 5 5	A 0~2.1 0~1.8 0~0.66 0~1.1 0~0.55 0~0.55 0~0.8 0~0.33 0~0.55 W 1000 1020 600 1000 600 750 1050 600 1000 SS 500-2 600-1.7 1000-0.6 1000-1 1200-0.5 1500-0.5 1500-0.7 2000-0.3 2000-0.5 A: Single phase 85~265Vac 0.99@100Vac 0.98@200Vac, rated output power. 0.99@100Vac 0.98@200Vac, rated output power. 0.01% of rated output voltage 0.01% of rated output voltage+5mV mV 450 500 650 650 700 1000 1000 1500 1500 mV 90 100 150 150 170 200 200 300 300 50PPM/°C from rated output voltage, following 30 minutes warm-up. 0.01% of rated Vout over 8hrs interval following 30 minutes warm-up. Less than 0.01% of rated output voltage+2mV over 30 minutes warm-up. Less than 0.01% of rated output voltage+2mV over 30 minutes following power on. MS 100 100 100 100 100 150 150 150 150 150	A 0~2.1 0~1.8 0~0.66 0~1.1 0~0.55 0~0.55 0~0.8 0~0.33 0~0.55 0~0.44 W 1000 1020 600 1000 600 750 1050 600 1000 1000 SS 500-2 600-1.7 1000-0.6 1000-1 1200-0.5 1500-0.5 1500-0.7 2000-0.3 2000-0.5 2500-0.4 A: Single phase 85-265Vac 0.99@100Vac 0.98@200Vac, rated output power. 0.99@100Vac 0.98@200Vac, rated output power. 0.01% of rated output voltage 0.01% of rated output voltage+5mV mV 450 500 650 650 700 1000 1000 1500 1500 2000 mV 90 100 150 150 150 170 200 200 300 300 300 450 S0PPM°C from rated output voltage, following 30 minutes warm-up. 0.01% of rated Vout over 8hrs interval following 30 minutes warm-up. Less than 0.01% of rated output voltage+2mV over 30 minutes following power on. V 5 5 5 5	A 0~2.1 0~1.8 0~0.66 0~1.1 0~0.55 0~0.55 0~0.8 0~0.33 0~0.55 0~0.44 0~0.21 W 1000 1020 600 1000 600 750 1050 600 1000 1000 600 CS 500-0.4 1000-1000 600 1000 1000 600 1000 1000 600 1000 1000 600 1000 1000 600 1000 1000 600 1000 1000 600 1000 1000 600 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 150 15

								_				_	
CONSTANT CURRENT MOI	DE	500-2	600-1.7	1000-0.6	1000-1	1200-0.5	1500-0.5	1500-0.7	2000-0.3	2000-0.5	2500-0.4	3000-0.2	3000-0.3
Max. Line regulation (*3)		0.02% of ra	ted output cur	rent. +2mA									
Max. Load regulation		0.02% of ra	ted output cur	rent. +5mA									
Ripple r.m.s. 5Hz~1MHz	mA	≤10	≤10	≤10	≤5	≤5	≤5	≤5	≤5	≤5	≤5	≤5	≤5
Temperature coefficient		70PPM/°C	70PPM/°C from rated output current, following 30 minutes warm-up.										
Temperature stability		0.01% of ra	ted Iout over 8	Bhrs. interval f	ollowing 30 m	ninutes warm-	up. Constant li	ine, load & ter	nperature.				
Warm-up drift		Less than ±	Less than ±0.15% of rated output current over 30 minutes following power on.										
ANALOG PROGRAMMING AND MONITORING (ISOLATED FROM THE OUTPUT)													
Vout voltage programming		0~100%, 0~	100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: ±0.15% of rated Vout.										

ANALOG PROGRAMMING	ANALOG PROGRAMMING AND MONITORING (ISOLATED FROM THE OUTPUT)							
Vout voltage programming		0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: ±0.15% of rated Vout.						
Iout voltage programming		0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: ±0.4% of rated Iout.						
Vout resistor programming		0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: ±0.5% of rated Vout.						
Iout resistor programming		0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: ±0.5% of rated Iout.						
Output voltage monitor		0~5V or 0~10V, user selectable. Accuracy: ±0.5% of rated Vout.						
Output current monitor		0~5V or 0~10V, user selectable. Accuracy: ±0.5% of rated lout.						
Remote switch on/off		High and low level or dry contact signal control power switch						

FUNCTIONS AND FEATURE	FUNCTIONS AND FEATURES								
Series/parallel operation		Support series/parallel operation of the same specification and model to expand voltage, current and power; Parallel connection is used for automatic current sharing in master-slave operation mode.							
Constant power control		The power within the rated power range can be set to achieve constant power mode							
Output resistance control		Emulates series resistance. Resistance range: $1\sim1000 \text{m}\Omega$.							
Voltage and current slope control		Programmable output rise and fall slopes. Programming range: 0.0001~999.9V/mS or A/mS							
LIST dynamic output		Four LIST program files can be saved, and each file can edit up to 200 steps of data; There are three execution modes: count, loop and single step.							
Timer function		0-9999 minutes can be set							
Quick data storage/recall		It can store 4 groups of commonly used working data of voltage, current and other parameters, and can be quickly accessed through the digital buttons on the panel							
Protection function		Output overvoltage protection, overcurrent protection, overload protection, over-temperature protection, short circuit protection, input undervoltage protection, overvoltage protection							

DIGITAL PROGRAM CONTROL		500-2	600-1.7	1000-0.6	1000-1	1200-0.5	1500-0.5	1500-0.7	2000-0.3	2000-0.5	2500-0.4	3000-0.2	3000-0.3
Vout programming accuracy		0.05% of ra	5% of rated output voltage										
Iout programming accuracy		0.5% of rate	d output curre	ent									
Vout programming resolution		0.002% of r	6 of rated output voltage										
Iout programming resolution		0.002% of r)2% of rated output current										
Vout readback accuracy		0.05% of ra	05% of rated output voltage										
Iout readback accuracy		0.5% of rate	d output curre	ent									
Vout readback resolution (of rated output voltage)	F.S.	0.003%	0.002%	0.011%	0.011%	0.010%	0.007%	0.007%	0.006%	0.006%	0.005%	0.004%	0.004%
Iout readback resolution (of rated output current))	F.S.	0.006%	0.009%	0.020%	0.011%	0.025%	0.025%	0.020%	0.040%	0.025%	0.026%	0.040%	0.040%
Communication interface		Built-in US	B/RS-232/RS-	-485/CAN into	erface, optiona	l LAN interfa	ee;Supports M	Iodbus-RTU a	nd SCPI indus	try standard c	ommunication	protocols.	

FRONT PANEL MONITORIN	FRONT PANEL MONITORING AND CONTROL									
Operation mode		Programmer knob,digital key and multi-function key								
Display		5 digits OLED screen displays output voltage, current, power, working status and other information; Support Chinese and English menu switching display.								
Voltage display accuracy		0.05% of rated output voltage±1count.								
Current display accuracy		0.5% of rated output current±1count.								
Voltage setting accuracy		0.05% of rated output voltage								
Current setting accuracy		0.5% of rated output current								
Setpoint resolution		5 digits OLED: display format: 99999, current value decreases by one digit, decimal point automatically increases by one digit, maximum resolution: 1mV; 1mA								
Display value resolution		5 digits OLED: display format: 99999, current value decreases by one digit, decimal point automatically increases by one digit, maximum resolution: 1mV;0.1mA								

ENVIRONMENT APPLICAB	ENVIRONMENT APPLICABILITY								
Operating temperature	°C	S: Civil grade $(0^{\circ}C \sim +50^{\circ}C)$; G: Industrial grade $(-25^{\circ}C \sim +55^{\circ}C)$							
Storage temperature	°C	vil grade $(-20^{\circ}\text{C} \sim +70^{\circ}\text{C})$; G: Industrial grade $(-30^{\circ}\text{C} \sim +85^{\circ}\text{C})$							
Operating humidity	%	20~90% RH (no condensation).							
Storage humidity	%	10~95% RH (no condensation).							
Cooling		Forced air cooling by internal fans. Air flow direction: from Front panel to power supply rear							

MECHANICAL								
Dimensions (WxHxD)	mm	W: 420, H: 43.5, D: 443 (Without busbars and busbars cover),						
Weight	Kg	About 5.5Kg						



DP 1700W series technical indicators (10V-200V)

OUTPUT RATING	G		10-170	20-85	30-56	40-42	50-34	60-28	80-21	100-17	150-11.2	200-8.5			
Voltage adjustable	range (*1)	V	0~10.5	0~21	0~32	0~42	0 ~ 53	0 ~ 63	0 ~ 84	0~105	0~158	0~210			
Current adjustable	range (*2)	A	0~180	0~90	0~60	0~44	0~36	0~30	0~22	0~18	0~12	0~9			
Rated power (OPI rated value)	P=110% of	W	1700	1700	1680	1680	1700	1680	1680	1700	1680	1700			
INPUT CHARAC	TERISTICS		10-170	20-85	30-56	40-42	50-34	60-28	80-21	100-17	150-11.2	200-8.5			
Input voltage/frequ	ency		A: Single pha	se 85~265Vac				•							
Power Factor (Typ))		0.99@100Vac	0.98@200Vac,	rated output pow	/er.									
Efficiency at 100Vac/200Vac, rated output							88/90								
CONSTANT VOL	TAGE MOD	ÞΕ	10-170	20-85	30-56	40-42	50-34	60-28	80-21	100-17	150-11.2	200-8.5			
Max. Line regulation	Line regulation (*3) 0.01% of rated output voltage														
Max. Load regulati	on (*4)		0.01% of rated	output voltage+.	5mV										
Ripple and noise (p-p, 20MHz)		mV	80	80	80	80	80	100	100	120	120	200			
Ripple r.m.s. 5Hz~	1MHz	mV	12	12	12	12	12	20	20	20	20	60			
Temperature coeffic	cient		50PPM/°C fro	PM/°C from rated output voltage, following 30 minutes warm-up.											
Temperature stabili	ty							ine, load & temp							
Warm-up drift			Less than 0.01	% of rated outpu	t voltage+2mV o	over 30 minutes f	ollowing power of	on.							
Sense compensation	n (*5)	V	2	2	5	5	5	5	5	5	5	5			
Rise response time	(*6)	mS	20	20	20	20	20	20	20	25	50	50			
Fall response	Full load	mS	30	30	60	60	60	60	60	60	120	120			
time (*7)	No load	mS	600	1000	1500	2000	2500	2700	3000	3600	3900	4500			
Transient response	time	mS	≤2mS (Time	for output voltag	e to recover with	nin 0.5% of its ra	ted output for a le	oad change 10~9	0% of rated outpu	it current.)					
Start up delay		S	6S (Turn on t	he power switch,	the time when the	he power starts a	nd enters standby	mode)							
CONSTANT CURRENT MODE			10-170	20-85	30-56	40-42	50-34	60-28	80-21	100-17	150-11.2	200-8.5			
Max. Line regulation	on (*3)		0.08% of rated	output current.											
Max. Load regulati	on		0.08% of rated	output current.											
Ripple r.m.s. 5Hz~	1MHz	mA	≤350	≤160	≤80	≤60	≤55	≤50	≤30	≤20	≤10	≤10			
Temperature coeffic	cient			odel: 100PPM/°C nodel : 70PPM/°C	_		-	-							
Temperature stabili	ty		0.01% of rated	l Iout over 8hrs. i	nterval following	g 30 minutes war	m-up. Constant l	ine, load & temp	erature.						
Warm-up drift						-		lowing power on							
ANALOG PROGI	DAMMINO	AND M	ONITODING	ISOLATED ED	OM THE OUT	DUT)									
Vout voltage progra		AND M		or 0~10V, user			+0.15% of est	ed Vout							
Iout voltage progra				or 0~10V, user											
Vout resistor progra				10Kohm full scal											
Iout resistor progra				10Kohm full scal											
Output voltage mor				V, user selectable			•								
Output current mor				V, user selectable											
Remote switch on/o				level or dry conta	-										
FUNCTIONS AND	D FEATURE	ES													
Series/parallel oper	ation			parallel operation ter-slave operation		ecification and m	odel to expand v	oltage, current ar	d power; Paralle	connection is us	sed for automatic	current			
Constant power con	ntrol		The power within the rated power range can be set to achieve constant power mode												
Output resistance c	ontrol		Emulates serie	s resistance. Res	istance range: 1~	-1000mΩ.									
Voltage and cur- control	rent slope		Programmable	output rise and t	fall slopes. Progr	amming range: 0	.0001~999.9V/m	S or A/mS							
LIST dynamic outp	out		Four LIST pro	Four LIST program files can be saved, and each file can edit up to 200 steps of data; There are three execution modes: count, loop and single step.											
Timer function			0-9999 minute	s can be set											
Quick data storage/	recall /		It can store 4 g	roups of commo	nly used working	g data of voltage,	current and othe	r parameters, and	can be quickly a	ccessed through	the digital buttor	s on the panel			
Protection function					overcurrent prote	ection, overload j	protection, over-t	emperature prote	ction, short circu	it protection, inp	ut undervoltage p	rotection,			
rrotection function			overvoltage pr				-	- •		. , 1		•			

DIGITAL PROGRAM CONTROL		10-170	20-85	30-56	40-42	50-34	60-28	80-21	100-17	150-11.2	200-8.5							
Vout programming accuracy		0.05% of rated	5% of rated output voltage															
Iout programming accuracy		Models within	s within 10A: 0.2% of rated output current; Models above 10A: 0.1% of rated output current															
Vout programming resolution		0.002% of rate	6 of rated output voltage															
Iout programming resolution		0.002% of rate	12% of rated output current															
Vout readback accuracy		0.05% of rated	.05% of rated output voltage															
Iout readback accuracy		Models within	10A: 0.2% of r	ated output curre	nt; Models abov	ve 10A: 0.1% of	rated output cur	rent										
Vout readback resolution (of rated output voltage)	F.S.	0.011%	0.006%	0.004%	0.003%	0.002%	0.002%	0.002%	0.011%	0.007%	0.005%							
Iout readback resolution (of rated output current))	F.S.	0.007%	0.002%	0.003%	0.003%	0.004%	0.004%	0.006%	0.007%	0.010%	0.015%							
Communication interface		Built-in USB/I	RS-232/RS-485/C	CAN interface, o	ptional LAN inte	rface;Supports M	lodbus-RTU and	SCPI industry st	andard communic	cation protocols.	ilt-in USB/RS-232/RS-485/CAN interface, optional LAN interface; Supports Modbus-RTU and SCPI industry standard communication protocols.							

FRONT PANEL MONITORIN	FRONT PANEL MONITORING AND CONTROL									
Operation mode		Programmer knob,digital key and multi-function key								
Display		5 digits OLED screen displays output voltage, current, power, working status and other information; Support Chinese and English menu switching display.								
Voltage display accuracy		0.05% of rated output voltage±1count.								
Current display accuracy		0.2% of rated output current±1count.								
Voltage setting accuracy		0.05% of rated output voltage								
Current setting accuracy		Models within 50A: 0.1% of actual output current+0.2% of rated output current; Models above 50A: 0.1% of actual output current+0.1% of rated output current								
Setpoint resolution		5 digits OLED: display format: 99999, current value decreases by one digit, decimal point automatically increases by one digit, maximum resolution: 1mV; 1mA								
Display value resolution		5 digits OLED: display format: 99999, current value decreases by one digit, decimal point automatically increases by one digit, maximum resolution: 1mV;1mA								

ENVIRONMENT APPLICAB	ENVIRONMENT APPLICABILITY									
Operating temperature	°C	S: Civil grade $(0^{\circ}C \sim +50^{\circ}C)$; G: Industrial grade $(-25^{\circ}C \sim +55^{\circ}C)$								
Storage temperature	°C	S: Civil grade $(-20^{\circ}\text{C} \sim +70^{\circ}\text{C})$; G: Industrial grade $(-30^{\circ}\text{C} \sim +85^{\circ}\text{C})$								
Operating humidity	%	20~90% RH (no condensation).								
Storage humidity	%	10~95% RH (no condensation).								
Cooling		Forced air cooling by internal fans. Air flow direction: from Front panel to power supply rear								

MECHANICAL								
Dimensions (WxHxD)	mm W: 420, H: 43.5, D: 443 (Without busbars and busbars cover),							
Weight	Kg	About 5.5Kg						

DP 1700W series technical indicators (300V-3000V)

OUTPUT RATING	G		300-5.6	400-4.2	500-3.4	600-2.8	1000-1.7	1200-1	1200-1.4	1500-1.1	2000-0.85	2500-0.68	3000-0.55
Voltage adjustable	range (*1)	V	0~315	0 ~ 420	0 ~ 525	0 ~ 630	0 ~ 1050	0 ~ 1260	0 ~ 1260	0 ~ 1575	0~2100	0 ~ 2550	0~3050
Current adjustable	range (*2)	A	0~6	0 ~ 4.5	0~3.6	0~3	0~1.8	0~1.1	0~1.5	0~1.2	0~0.9	0~0.75	0 ~ 0.6
Rated power (OPP=110% of rate	ed value)	W	1680	1680	1700	1680	1700	1200	1680	1650	1700	1700	1650
INPUT CHARAC	TERISTICS		300-5.6	400-4.2	500-3.4	600-2.8	1000-1.7	1200-1	1200-1.4	1500-1.1	2000-0.85	2500-0.68	3000-0.55
Input voltage/frequ	ency		A: Single pl	nase 85~265Vac	;								
Power Factor (Typ))		0.99@100Va	c 0.98@200Vac	rated output	power.							
Efficiency at 100V rated output	/ac/200Vac,	%	88/90	88/90	88/90	89/91	90/92	89/91	90/92	90/92	90/92	90/92	90/92
CONSTANT VOLTAGE MODE		E	300-5.6	400-4.2	500-3.4	600-2.8	1000-1.7	1200-1	1200-1.4	1500-1.1	2000-0.85	2500-0.68	3000-0.55
Max. Line regulation	s. Line regulation (*3) 0.01% of rated output voltage												
Max. Load regulati	on (*4)		0.01% of rate	ed output voltag	e+5mV								
Ripple and no 20MHz)	oise (p-p,	mV	150	250	450	500	650	700	700	1000	1500	2000	2500
Ripple r.m.s. 5Hz~	1MHz	mV	30	50	90	100	150	170	170	200	300	450	600
Temperature coeffic	cient		50PPM/°C from rated output voltage, following 30 minutes warm-up.										
Temperature stabili	ty		0.01% of rate	ed Vout over 8h	rs interval follo	wing 30 minute	s warm-up. Co	nstant line, load	& temp.				
Warm-up drift			Less than 0.0	1% of rated out	put voltage+2n	nV over 30 min	utes following j	power on.					
Sense compensation	n (*5)	V	5	5	5	5							
Rise response time	(*6)	mS	100	100	100	100	100	150	150	150	150	200	250
Fall response	Full load	mS	220	220	200	200	200	220	220	220	250	250	280
time (*7)	No load	mS	4600	4600	5000	5500	6000	6500	6500	7000	8000	9000	10000
Transient response	time	mS	≤2mS (Time	for output volt	age to recover	within 0.5% of	its rated output	for a load chan	ge 10~90% of 1	ated output cur	rent.)		
Start up delay ≤			6S (Turn on	the power swit	ch, the time wh	en the power st	arts and enters	standby mode)					
			•										

Output voltage monitor

Output current monitor

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CONSTANT CURRENT MOI	ЭE	300-5.6	400-4.2	500-3.4	600-2.8	1000-1.7	1200-1	1200-1.4	1500-1.1	2000-0.85	2500-0.68	3000-0.55
Max. Line regulation (*3)		0.02% of rate	2% of rated output current. +2mA									
Max. Load regulation		0.02% of rate	02% of rated output current. +5mA									
Ripple r.m.s. 5Hz~1MHz	mA	≤10	≤10	≤10	≤10	≤5	≤5	≤5	≤5	≤5	≤5	≤5
Temperature coefficient		70PPM/°C fr	PPM/°C from rated output current, following 30 minutes warm-up.									
Temperature stability		0.01% of rate	01% of rated Iout over 8hrs. interval following 30 minutes warm-up. Constant line, load & temperature.									
Warm-up drift		Less than ±0.	15% of rated o	utput current ov	ver 30 minutes	following power	r on.					
ANALOG PROGRAMMING	AND M	ONITORING	(ISOLATED I	ROM THE O	UTPUT)							
Vout voltage programming		0~100%, 0~5	V or 0~10V, us	ser selectable. A	securacy and lir	earity: ±0.15%	of rated Vout.					
Iout voltage programming		0~100%, 0~5	~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: ±0.4% of rated Iout.									
Vout resistor programming		0~100%, 0~5	~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: ±0.5% of rated Vout.									
Iout resistor programming		0~100%, 0~5	/10Kohm full s	cale, user selec	table. Accuracy	and linearity:	±0.5% of rated	Iout.				

Remote switch on/off		ligh and low level or dry contact signal control power switch								
	•									
FUNCTIONS AND FEATURE	FUNCTIONS AND FEATURES									
Series/parallel operation		Support series/parallel operation of the same specification and model to expand voltage, current and power; Parallel connection is used for automatic current sharing in master-slave operation mode.								
Constant power control		The power within the rated power range can be set to achieve constant power mode								
Output resistance control		Emulates series resistance. Resistance range: 1~1000mΩ.								
Voltage and current slope control		Programmable output rise and fall slopes. Programming range: 0.0001~999.9V/mS or A/mS								
LIST dynamic output		Four LIST program files can be saved, and each file can edit up to 200 steps of data; There are three execution modes: count, loop and single step.								
Timer function		0-9999 minutes can be set								
Quick data storage/recall		It can store 4 groups of commonly used working data of voltage, current and other parameters, and can be quickly accessed through the digital buttons on the panel								
Protection function		Output overvoltage protection, overcurrent protection, overload protection, over-temperature protection, short circuit protection, input undervoltage protection, overvoltage protection								

 $0{\sim}5V$ or $0{\sim}10V,$ user selectable. Accuracy: $\pm0.5\%$ of rated Vout.

 $0{\sim}5V$ or $0{\sim}10V,$ user selectable. Accuracy: $\pm0.5\%$ of rated Iout.

DIGITAL PROGRAM CONTROL		300-5.6	400-4.2	500-3.4	600-2.8	1000-1.7	1200-1	1200-1.4	1500-1.1	2000-0.85	2500-0.68	3000-0.55
Vout programming accuracy		0.05% of rate	0.05% of rated output voltage									
Iout programming accuracy		0.2% of rated	l output current	; (Models wi	thin 3A: 0.5%	of rated output	t current)					
Vout programming resolution		0.002% of ra	ted output volta	ge								
Iout programming resolution		0.002% of ra	0.002% of rated output current									
Vout readback accuracy		0.05% of rate	ed output voltag	e								
Iout readback accuracy		0.2% of rated	l output current	; (Models wi	thin 3A: 0.5%	of rated output	t current)					
Vout readback resolution (of rated output voltage)	F.S.	0.004%	0.003%	0.003%	0.002%	0.011%	0.010%	0.010%	0.007%	0.006%	0.005%	0.004%
Iout readback resolution (of rated output current))	F.S.	0.003%	0.003%	0.004%	0.005%	0.007%	0.011%	0.010%	0.010%	0.015%	0.020%	0.020%
Communication interface		Built-in USB	/RS-232/RS-48	5/CAN interfac	ce, optional LA	N interface;Sup	ports Modbus-l	RTU and SCPI	industry standa	rd communicati	on protocols.	

FRONT PANEL MONITORIN	FRONT PANEL MONITORING AND CONTROL							
Operation mode		Programmer knob,digital key and multi-function key						
Display		5 digits OLED screen displays output voltage, current, power, working status and other information; Support Chinese and English menu switching display.						
Voltage display accuracy		0.05% of rated output voltage±1count.						
Current display accuracy		0.2% of rated output current±1count; (Models within 3A: 0.5% of rated output current±1count)						
Voltage setting accuracy		0.05% of rated output voltage						
Current setting accuracy		0.2% of rated output current; (Models within 3A: 0.5% of rated output current)						
Setpoint resolution		5 digits OLED; display format: 99999, current value decreases by one digit, decimal point automatically increases by one digit, maximum resolution:1mV; 1mA						
Display value resolution		5 digits OLED; display format: 99999, current value decreases by one digit, decimal point automatically increases by one digit, maximum resolution: lmV; lmA (0.1mA@Models within 3A)						

ENVIRONMENT APPLICABILITY							
Operating temperature	°C	Civil grade (0° C ~ +50°C); G: Industrial grade (-25°C ~ +55°C)					
Storage temperature	°C	S: Civil grade (-20°C ~ +70°C) ; G: Industrial grade (-30°C ~ +85°C)					
Operating humidity	%	20~90% RH (no condensation).					
Storage humidity	%	10~95% RH (no condensation).					
Cooling		Forced air cooling by internal fans. Air flow direction: from Front panel to power supply rear					

MECHANICAL							
Dimensions (WxHxD)	mm	W: 420, H: 43.5, D: 443 (Without busbars and busbars cover),					
Weight	Kg	About 5.5Kg					



DP 2700W series technical indicators (10V-200V)

OTTITE TATION 1 10-15	_																
Came and partial provided manufacility	OUTPUT RATIN	i G		10-270	20-135	30-90	40-68	50-55	60-45	80-34	100-27	150-18	200-14				
Raded power year where where where where where where where where where year year year year year year year y	Voltage adjustable	range (*1)	V	0~10.5	0~21	0~32	0 ~ 42	0 ~ 53	0 ~ 63	0~84	0~105	0~158	0~210				
Control Con	Current adjustable	range (*2)	A	0~285	0~142	0~95	0~72	0~58	0~47	0~36	0~27	0~19	0~15				
Profee		ated value)	W	2700	2700	2700	2720	2750	2700	2720	2700	2700	2800				
Part Facint (Tyy)	INPUT CHARAC	CTERISTICS		10-270	20-135	30-90	40-68	50-55	60-45	80-34	100-27	150-18	200-14				
Efficiency as 20 Vec . rated 95	Input voltage/frequ	iency		B: Single pha	3: Single phase 170~265Vac												
Sequence 1	Power Factor (Typ)		0.98@200Vac	· ·												
Max. Loan regulation (*3) = 0.00% of fined output violage—form Max. Loan regulation (*4) = 0.00% of fined output violage—form Max. Loan regulation (*4) = 0.00% of fined output violage—form Max. Loan regulation (*4) = 0.00% of fined output violage—form Max. Loan regulation (*4) = 0.00% of fined output violage—form Max. Loan regulation (*4) = 0.00% of fined violage—form Max. Loan regulation (*5) = 0.00% of fined violage—form (*5) = 1.00% of fined violage—form (*5) = 0.00% of fined violage—form (*	•	0Vac, rated	%	88	89	89	89	89	89	89	90	90	90				
Max. Load riginalise (*4)	CONSTANT VOI	LTAGE MOD	E	10-270	20-135	30-90	40-68	50-55	60-45	80-34	100-27	150-18	200-14				
Ripple and noise	Max. Line regulati	on (*3)		0.01% of rated	0.01% of rated output voltage												
1	Max. Load regulat	ion (*4)		0.01% of rated													
Rope can so Std - Mile 10			mV	80	80	80	80	80	100	100	120	120	200				
Temperature substitive		-1MHz	mV	12	12	12	12	12	20	20	20	20	60				
Sense componentation (**) V 2 2 2 5 5 5 5 5 5 5	Temperature coeffi	icient		50PPM/°C fro	m rated output ve	oltage, following	30 minutes warr	n-up.	•								
Sense compensation (*f) V 2 2 2 5 5 5 5 5 5 5	Temperature stabil	ity		0.01% of rated	l Vout over 8hrs i	nterval following	g 30 minutes war	m-up. Constant l	ine, load & temp.								
Rice response time **(*)	Warm-up drift			Less than 0.01	% of rated outpu	t voltage+2mV c	over 30 minutes f	ollowing power of	on.								
Fall lead	Sense compensation	on (*5)	V	2	2	5	5	5	5	5	5	5	5				
No lead mS 600 1000 1500 2000 2500 2700 3000 3600 3900 4500 4500 17 17 18 18 18 18 18 18	Rise response time	: (*6)	mS	20	20	20	20	20	20	20	25	50	50				
Transient response time mS \$2mS (Time for output voltage to recover within 0.5% of its nated output for a load change 10-90% of rated output current.) Start up delay \$\(\) 68 (Time on the power switch, the time when the power starts and enters standby mode) **CONSTANT CURRENT MODE*** \$10-270	Fall response	Full load	mS	30	30	60	60	60	60	60	60	120	120				
Start up delay \$\$ 68\$ (Turn on the power switch, the time when the power starts and enters standby mode) **CONSTANT CURRENT MODE** \$\$ 10-270** \$\$ 20-135** \$\$ 30-90** \$\$ 40-68** \$\$ 50-55** \$\$ 60-45** \$\$ 80-34** \$\$ 100-27** \$\$ 150-18** \$\$ 200-14** **Max. Load regulation** \$\$	time (*7)	No load	mS	600	1000	1500	2000	2500	2700	3000	3600	3900	4500				
CONSTANT CURRENT MODE 10-270 20-135 30-90 40-68 50-55 60-45 80-34 100-27 150-18 200-14 Max. Line regulation (*3)	Transient response	time	mS	≤2mS (Time	for output voltage	e to recover with	in 0.5% of its rat	ed output for a lo	oad change 10~90	1% of rated outpu	it current.)						
Max. Line regulation (*3) - 0.05% of rated output current. Max. Load regulation - 0.08% of rated output current. Max. Load regulation - 0.08% of rated output current. Ripple r.m.s. Fik2-HMHz	Start up delay		<u>≤</u>	6S (Turn on t	he power switch,	the time when the	he power starts a	nd enters standby	mode)								
Max. Line regulation (*3) - 0.05% of rated output current. Max. Load regulation - 0.08% of rated output current. Max. Load regulation - 0.08% of rated output current. Ripple r.m.s. Fik2-HMHz	CONSTANT CHI	RRENT MOI)E	10-270	20-135	30-90	40-68	50-55	60-45	80-34	100-27	150-18	200-14				
Max. Load regulation						30 70	10 00	50 55	1 00 15	003.	100 27	100 10	200 11				
Ripple r.m.s. 5Hz-1MHz																	
Temperature coefficient																	
Towperature stability 0.01% of rated lout over 8hs. interval following 30 minutes warru-up. Constant ine, load & temperature.				10V~100V mo	odel: 100PPM/°C	from rated outp	ut current, follow	ring 30 minutes v	varm-up.								
Warn-up drift - 10V-100V model: Less than ±0.25% of rated output current over 30 minutes following power on. 150V-200V model: Less than ±0.15% of rated output current over 30 minutes following power on. ANALOG PROGRAMMING AND MONITORING (ISOLATED FROM THE OUTPUT) Vout voltage programming 0-100%, 0-5V or 0-10V, user selectable. Accuracy and linearity: ±0.15% of rated Vout. Vout resistor programming 0-100%, 0-5V or 0-10V, user selectable. Accuracy and linearity: ±0.5% of rated Vout. Vout resistor programming 0-100%, 0-5V or 0-10V, user selectable. Accuracy and linearity: ±0.5% of rated Vout. Output voltage monitor 0-5V or 0-10V, user selectable. Accuracy and linearity: ±0.5% of rated Vout. Output voltage monitor 0-5V or 0-10V, user selectable. Accuracy and linearity: ±0.5% of rated Vout. Output voltage monitor 0-5V or 0-10V, user selectable. Accuracy: ±0.5% of rated Vout. Output current monitor 0-5V or 0-10V, user selectable. Accuracy: ±0.5% of rated Vout. Remote switch on/off High and low level or dry contact signal control power switch FUNCTIONS AND FEATURES FUNCTIONS AND FEATURES Series/parallel operation Support series/parallel operation of the same specification and model to expand voltage, current and power; Parallel connection is used for automatic current sharing in master-slave operation mode. Constant power control The power within the rated power range can be set to achieve constant power mode Output resistance control Emulates series resistance. Resistance range: 1-1000mΩ. Voltage and current slope Programmable output rise and fall slopes. Programming range: 0.0001~999.9V/mS or A/mS LIST dynamic output Four LIST program files can be saved, and each file can edit up to 200 steps of data; There are three execution modes: count, loop and single step. Profession function User of the counter of the parallel protection, over-temperature protection, short circuit protection, input undervoltage protection, over-temperature protection, short circuit p	*								•	anatuma							
ANALOG PROGRAMMING AD WITTORING (ISOLATED FROM THE OUTPUT) Vout voltage programming 0-100%, 0-5V or 0-10V, user selectable. Accuracy and linearity: ±0.15% of rated Vout. lout voltage programming 0-100%, 0-5V or 0-10V, user selectable. Accuracy and linearity: ±0.5% of rated Vout. Vout resistor programming 0-100%, 0-5/10Kohm full scale, user selectable. Accuracy and linearity: ±0.5% of rated Vout. Lout resistor programming 0-100%, 0-5/10Kohm full scale, user selectable. Accuracy and linearity: ±0.5% of rated Vout. Output voltage monitor 0-5V or 0-10V, user selectable. Accuracy: ±0.5% of rated Vout. Output output monitor 0-5V or 0-10V, user selectable. Accuracy: ±0.5% of rated Vout. Output current monitor 0-5V or 0-10V, user selectable. Accuracy: ±0.5% of rated Iout. PRIVATIONS AND FEATURES Series/parallel operation Support series/parallel operation of the same specification and model to expand voltage, current and power; Parallel connection is used for automatic current sharing in master-slave operation mode. Constant power control The power within the rated power range can be set to achieve constant power mode Output resistance control Emulates series resistance. Resistance range: 1-1000m\Omega. Voltage and current slope control Four LIST program files can be saved, and each file can edit up to 200 steps of data; There are three execution modes: count, loop and single step. Timer function 0-9999 minutes can be set Output overvoltage protection, overload protection, over-temperature protection, short circuit protection, input undervoltage protection, overload protection, over-temperature protection, short circuit protection, input undervoltage protection, overload protection, over-temperature protection, short circuit protection, input undervoltage protection, overload protection, over-temperature protection, short circuit protection, input undervoltage protection, over-temperature protection, short circuit protection, input undervoltage protection		пу								crature.							
Vout voltage programming	warm-up driit			150V~200V n	nodel: Less than :	±0.15% of rated	output current ov	er 30 minutes fol	llowing power on								
Iout voltage programming - 0-100%, 0-5V or 0-10V, user selectable. Accuracy and linearity: ±0.4% of rated Iout. Vout resistor programming - 0-100%, 0-5/10Kohm full scale, user selectable. Accuracy and linearity: ±0.5% of rated Vout. Iout resistor programming - 0-100%, 0-5/10Kohm full scale, user selectable. Accuracy and linearity: ±0.5% of rated Iout. Output voltage monitor - 0-5V or 0-10V, user selectable. Accuracy: ±0.5% of rated Vout. Output current monitor - 0-5V or 0-10V, user selectable. Accuracy: ±0.5% of rated Iout. Remote switch on/off - High and low level or dry contact signal control power switch FUNCTIONS AND FEATURES Series/parallel operation - Support series/parallel operation of the same specification and model to expand voltage, current and power; Parallel connection is used for automatic current sharing in master-slave operation mode. Constant power control - The power within the rated power range can be set to achieve constant power mode Output resistance control - Emulates series resistance. Resistance range: 1~1000mΩ. Voltage and current slope control - Programmable output rise and fall slopes. Programming range: 0.0001-999.9V/mS or A/mS LIST dynamic output - Four LIST program files can be saved, and each file can edit up to 200 steps of data; There are three execution modes: count, loop and single step. Timer function - 0-9999 minutes can be set Quick data storage/recall - It can store 4 groups of commonly used working data of voltage, current and other parameters, and can be quickly accessed through the digital buttons on the panel Protection function output overvoltage protection, overcurrent protection, over-lemperature protection, short circuit protection, input undervoltage protection,	ANALOG PROG	RAMMING	AND M	ONITORING (ISOLATED FRO	OM THE OUT	PUT)										
Vout resistor programming 0-100%, 0-5/10Kohm full scale, user selectable. Accuracy and linearity: ±0.5% of rated Vout. Output voltage monitor 0-5V or 0-10V, user selectable. Accuracy: ±0.5% of rated Vout. Output current monitor 0-5V or 0-10V, user selectable. Accuracy: ±0.5% of rated Vout. Output current monitor 0-5V or 0-10V, user selectable. Accuracy: ±0.5% of rated Iout. Remote switch on/off High and low level or dry contact signal control power switch FUNCTIONS AND FEATURES Series/parallel operation Support series/parallel operation of the same specification and model to expand voltage, current and power; Parallel connection is used for automatic current sharing in master-slave operation mode. Constant power control The power within the rated power range can be set to achieve constant power mode Output resistance control Emulates series resistance. Resistance range: 1~1000mΩ. Voltage and current slope control Programmable output rise and fall slopes. Programming range: 0.0001~999.9V/mS or A/mS LIST dynamic output Four LIST program files can be saved, and each file can edit up to 200 steps of data; There are three execution modes: count, loop and single step. Timer function 0-9999 minutes can be set Quick data storage/recall It can store 4 groups of commonly used working data of voltage, current and other parameters, and can be quickly accessed through the digital buttons on the panel Protection function of the protection, over-temperature protection, short circuit protection, input undervoltage protection, over-temperature protection, short circuit protection, input undervoltage protection, over-temperature protection, short circuit protection, input undervoltage protection,	Vout voltage progr	ramming		0~100%, 0~5	V or 0~10V, user	selectable. Accur	racy and linearity	: ±0.15% of rate	d Vout.								
Output voltage monitor O-50 v or O-10V, user selectable. Accuracy: ±0.5% of rated Iout. Output current monitor O-5V or O-10V, user selectable. Accuracy: ±0.5% of rated Iout. Output current monitor O-5V or O-10V, user selectable. Accuracy: ±0.5% of rated Iout. Remote switch on/off High and low level or dry contact signal control power switch FUNCTIONS AND FEATURES Series/parallel operation Support series/parallel operation of the same specification and model to expand voltage, current and power; Parallel connection is used for automatic current sharing in master-slave operation mode. Constant power control Depose within the rated power range can be set to achieve constant power mode Output resistance control Demouracy in the rated power range in Programming range: 10-1000mΩ. Voltage and current slope control Programmable output rise and fall slopes. Programming range: 0.0001-999.9V/mS or A/mS LIST dynamic output Demouracy in the same specification and model to expand voltage, current and power; Parallel connection is used for automatic current slope control Demouracy in the rated power range can be set to achieve constant power mode Dutput resistance control Programmable output rise and fall slopes. Programming range: 0.0001-999.9V/mS or A/mS LIST dynamic output Programmable output rise and fall slopes. Programming range: 0.0001-999.9V/mS or A/mS Dutput overvoltage protection, overvoltage protection, over-temperature protection, short circuit protection, input undervoltage protection, over-temperature protection, short circuit protection, i	Iout voltage progra	amming		0~100%, 0~5	V or 0~10V, user	selectable. Accur	racy and linearity	: ±0.4% of rated	Iout.								
Output voltage monitor	Vout resistor progr	ramming		0~100%, 0~5/	10Kohm full scal	le, user selectable	e. Accuracy and l	inearity: ±0.5%	of rated Vout.								
Output current monitor 0-5V or 0-10V, user selectable. Accuracy: ±0.5% of rated Iout. Remote switch on/off High and low level or dry contact signal control power switch FUNCTIONS AND FEATURES Series/parallel operation Support series/parallel operation of the same specification and model to expand voltage, current and power; Parallel connection is used for automatic current sharing in master-slave operation mode. Constant power control The power within the rated power range can be set to achieve constant power mode Output resistance control Emulates series resistance. Resistance range: 1~1000mΩ. Voltage and current slope control Programmable output rise and fall slopes. Programming range: 0.0001~999.9V/mS or A/mS LIST dynamic output Four LIST program files can be saved, and each file can edit up to 200 steps of data; There are three execution modes: count, loop and single step. Timer function 0-9999 minutes can be set Quick data storage/recall It can store 4 groups of commonly used working data of voltage, current and other parameters, and can be quickly accessed through the digital buttons on the panel Protection function Output overvoltage protection, overcurrent protection, over-temperature protection, short circuit protection, input undervoltage protection,	Iout resistor progra	amming		0~100%, 0~5/	10Kohm full scal	le, user selectable	e. Accuracy and l	inearity: ±0.5%	of rated Iout.								
FUNCTIONS AND FEATURES Series/parallel operation Support series/parallel operation of the same specification and model to expand voltage, current and power; Parallel connection is used for automatic current sharing in master-slave operation mode. Constant power control The power within the rated power range can be set to achieve constant power mode Output resistance control Emulates series resistance. Resistance range: 1~1000mΩ. Voltage and current slope control Programmable output rise and fall slopes. Programming range: 0.0001~999.9V/mS or A/mS LIST dynamic output Four LIST program files can be saved, and each file can edit up to 200 steps of data; There are three execution modes: count, loop and single step. Timer function 0-9999 minutes can be set Quick data storage/recall It can store 4 groups of commonly used working data of voltage, current and other parameters, and can be quickly accessed through the digital buttons on the panel Protection function Output overvoltage protection, overcurrent protection, over-temperature protection, short circuit protection, input undervoltage protection,	Output voltage mo	nitor		0~5V or 0~10	V, user selectable	. Accuracy: ±0.5	% of rated Vout.										
FUNCTIONS AND FEATURES Series/parallel operation Support series/parallel operation of the same specification and model to expand voltage, current and power; Parallel connection is used for automatic current sharing in master-slave operation mode. Constant power control The power within the rated power range can be set to achieve constant power mode Output resistance control Emulates series resistance. Resistance range: 1~1000mΩ. Voltage and current slope control Programmable output rise and fall slopes. Programming range: 0.0001~999.9V/mS or A/mS LIST dynamic output Four LIST program files can be saved, and each file can edit up to 200 steps of data; There are three execution modes: count, loop and single step. Timer function 0-9999 minutes can be set Quick data storage/recall It can store 4 groups of commonly used working data of voltage, current and other parameters, and can be quickly accessed through the digital buttons on the panel Protection function Output overvoltage protection, overcurrent protection, over-temperature protection, short circuit protection, input undervoltage protection,	Output current mo	nitor		0~5V or 0~10	V, user selectable	. Accuracy: ±0.5	% of rated Iout.										
Series/parallel operation Support series/parallel operation of the same specification and model to expand voltage, current and power; Parallel connection is used for automatic current sharing in master-slave operation mode. Constant power control The power within the rated power range can be set to achieve constant power mode Output resistance control Emulates series resistance. Resistance range: 1~1000mΩ. Voltage and current slope control Programmable output rise and fall slopes. Programming range: 0.0001~999.9V/mS or A/mS LIST dynamic output Four LIST program files can be saved, and each file can edit up to 200 steps of data; There are three execution modes: count, loop and single step. Timer function 0-9999 minutes can be set Quick data storage/recall It can store 4 groups of commonly used working data of voltage, current and other parameters, and can be quickly accessed through the digital buttons on the panel Protection function Output overvoltage protection, overcurrent protection, over-temperature protection, short circuit protection, input undervoltage protection,	Remote switch on/	/off		High and low	level or dry conta	act signal control	power switch										
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Output resistance control Emulates series resistance. Resistance range: 1~1000mΩ. Voltage and current slope control Programmable output rise and fall slopes. Programming range: 0.0001~999.9V/mS or A/mS LIST dynamic output Four LIST program files can be saved, and each file can edit up to 200 steps of data; There are three execution modes: count, loop and single step. Timer function 0-9999 minutes can be set Quick data storage/recall It can store 4 groups of commonly used working data of voltage, current and other parameters, and can be quickly accessed through the digital buttons on the panel Protection function Output overvoltage protection, overcurrent protection, over-temperature protection, short circuit protection, input undervoltage protection,	Constant power co	ntrol		·	•		set to achieve co	nstant power mo	de								
Voltage and current slope control Programmable output rise and fall slopes. Programming range: 0.0001~999.9V/mS or A/mS LIST dynamic output Four LIST program files can be saved, and each file can edit up to 200 steps of data; There are three execution modes: count, loop and single step. Output overvoltage protection, overload protection, over-temperature protection, short circuit protection, input undervoltage protection,																	
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Timer function 0-9999 minutes can be set Quick data storage/recall It can store 4 groups of commonly used working data of voltage, current and other parameters, and can be quickly accessed through the digital buttons on the panel Protection function Output overvoltage protection, overcurrent protection, over-temperature protection, short circuit protection, input undervoltage protection,		control															
Quick data storage/recall It can store 4 groups of commonly used working data of voltage, current and other parameters, and can be quickly accessed through the digital buttons on the panel Protection function Output overvoltage protection, overcurrent protection, over-temperature protection, short circuit protection, input undervoltage protection,	•	r v															
Protection function Output overvoltage protection, overcurrent protection, over-temperature protection, short circuit protection, input undervoltage protection,										is on the panel							
overvoltage protection overvoltage protection					-												
	1 forection function	1		overvoltage pr	otection												

DIGITAL PROGRAM CONT	DIGITAL PROGRAM CONTROL		20-135	30-90	40-68	50-55	60-45	80-34	100-27	150-18	200-14
Vout programming accuracy		0.05% of rated	l output voltage								
Iout programming accuracy		0.1% of rated	output current								
Vout programming resolution		0.002% of rate	002% of rated output voltage								
Iout programming resolution		0.002% of rate	0.002% of rated output current								
Vout readback accuracy		0.05% of rated	0.05% of rated output voltage								
Iout readback accuracy		0.1% of rated	output current								
Vout readback resolution (of rated output voltage)	F.S.	0.011%	0.006%	0.004%	0.003%	0.002%	0.002%	0.002%	0.011%	0.007%	0.005%
Iout readback resolution (of rated output current))	F.S.	0.005%	0.010%	0.002%	0.002%	0.002%	0.004%	0.004%	0.005%	0.007%	0.009%
Communication interface		Built-in USB/I	Built-in USB/RS-232/RS-485/CAN interface, optional LAN interface; Supports Modbus-RTU and SCPI industry standard communication protocols.								

FRONT PANEL MONITORING AND CONTROL							
Operation mode		Programmer knob,digital key and multi-function key					
Display		5 digits OLED screen displays output voltage, current, power, working status and other information; Support Chinese and English menu switching display.					
Voltage display accuracy		0.05% of rated output voltage±1count.					
Current display accuracy		0.1% of rated output current±1count.					
Voltage setting accuracy		0.05% of rated output voltage					
Current setting accuracy		0.1% of rated output current					
Setpoint resolution		5 digits OLED; display format: 99999, current value decreases by one digit, decimal point automatically increases by one digit, maximum resolution:1mV; 1mA					
Display value resolution		5 digits OLED; display format: 99999, current value decreases by one digit, decimal point automatically increases by one digit, maximum resolution: 1mV; 1mA					

ENVIRONMENT APPLICABILITY							
Operating temperature	°C	Civil grade (0°C ~ +50°C); G: Industrial grade (-25°C ~ +55°C)					
Storage temperature	°C	S: Civil grade (-20°C ~+70°C); G: Industrial grade (-30°C ~+85°C)					
Operating humidity	%	20~90% RH (no condensation).					
Storage humidity	%	10~95% RH (no condensation).					
Cooling		Forced air cooling by internal fans. Air flow direction: from Front panel to power supply rear					

MECHANICAL							
Dimensions (WxHxD)	mm	W: 420, H: 43.5, D: 443 (Without busbars and busbars cover),					
Weight	Kg	About 6.5Kg					

DP 2700W series technical indicators (300V-3000V)

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OUTPUT RATING			300-9	400-7	500-5.5	600-4.5	1000-2.7	1200-2	1500-1.8	2000-1.4	2500-1	3000-0.9			
Voltage adjustable range (*1) V		V	0~315	0~420	0 ~ 525	0 ~ 630	0 ~ 1050	0~1260	0 ~ 1575	0~2100	0 ~ 2550	0 ~ 3050			
Current adjustable ra	ange (*2)	A	0~9.5	0 ~ 7.5	0 ~ 5.8	0 ~ 4.8	0~2.9	0~2.1	0~1.9	0~1.5	0~1.1	0~1			
Rated power (OPP=110% of rate	ed value)	W	2700	2800	2750	2750	2700	2400	2700	2800	2500	2700			
INPUT CHARACT	ERISTICS		300-9	400-7	500-5.5	600-4.5	1000-2.7	1200-2	1500-1.8	2000-1.4	2500-1	3000-0.9			
Input voltage/frequen	ncy		B: Single pha	se 170~265Vac											
Power Factor (Typ)			0.98@200Vac	, rated output po	ower.										
.Efficiency at 200Va output	ic, rated	%	90	90	90	91	92	92	92	92	92	92			
CONSTANT VOLTAGE MODE		E	300-9	400-7	500-5.5	600-4.5	1000-2.7	1200-2	1500-1.8	2000-1.4	2500-1	3000-0.9			
Max. Line regulation	n (*3)		0.01% of rated	0.01% of rated output voltage											
Max. Load regulation	n (*4)		0.01% of rated	output voltage+	5mV										
Ripple and nois 20MHz)	se (p-p,	mV	150	250	450	500	660	700	1000	1500	2000	2500			
Ripple r.m.s. 5Hz~1M	MHz	mV	30	50	90	100	150	170	200	300	450	600			
Temperature coeffici	ient		50PPM/°C fro	m rated output vo	oltage, following	30 minutes warn	n-up.								
Temperature stability	y		0.01% of rated	Vout over 8hrs i	nterval following	g 30 minutes war	m-up. Constant li	ne, load & temp.							
Warm-up drift			Less than 0.01	% of rated output	t voltage+2mV o	ver 30 minutes fo	ollowing power o	n.							
Sense compensation	(*5)	V	5	5	5	5									
Rise response time ((*6)	mS	100	100	100	100	100	150	150	150	200	250			
Fall response	Full load	mS	220	220	200	200	200	220	220	250	250	280			
time (*7)	No load	mS	4600	4600	5000	5500	6000	6500	7000	8000	9000	10000			
Transient response ti	ime	mS	≤2mS (Time	for output voltag	e to recover with	in 0.5% of its rat	ed output for a lo	ad change 10~90	0% of rated outpu	it current.)					
Start up delay ≤			6S (Turn on the power switch, the time when the power starts and enters standby mode)												

CONSTANT CURRENT MODE		300-9	400-7	500-5.5	600-4.5	1000-2.7	1200-2	1500-1.8	2000-1.4	2500-1	3000-0.9
Max. Line regulation (*3)		0.05% of rated	5% of rated output current.								
Max. Load regulation		Models above	dels above 8A: 0.08% of rated output current; Models within 8A: 0.02% of rated output current+5mA								
Ripple r.m.s. 5Hz~1MHz	mA	≤10	≤10	≤10	≤10	≤5	≤5	≤5	≤5	≤5	≤5
Temperature coefficient		70PPM/°C fro	70PPM/°C from rated output current, following 30 minutes warm-up.								
Temperature stability		0.01% of rated	0.01% of rated lout over 8hrs. interval following 30 minutes warm-up. Constant line, load & temperature.								
Warm-up drift		Less than ±0.	Less than ±0.15% of rated output current over 30 minutes following power on.								

ANALOG PROGRAMMING	ANALOG PROGRAMMING AND MONITORING (ISOLATED FROM THE OUTPUT)							
Vout voltage programming		$0\sim100\%,0\sim5\mathrm{V}$ or $0\sim10\mathrm{V}$, user selectable. Accuracy and linearity: $\pm0.15\%$ of rated Vout.						
Iout voltage programming		0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: ±0.4% of rated Iout.						
Vout resistor programming		0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: ±0.5% of rated Vout.						
Iout resistor programming		0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: ±0.5% of rated Iout.						
Output voltage monitor		0~5V or 0~10V, user selectable. Accuracy: ±0.5% of rated Vout.						
Output current monitor		0~5V or 0~10V, user selectable. Accuracy: ±0.5% of rated Iout.						
Remote switch on/off		High and low level or dry contact signal control power switch						

FUNCTIONS AND FEATURE	S	
Series/parallel operation		Support series/parallel operation of the same specification and model to expand voltage, current and power; Parallel connection is used for automatic current sharing in master-slave operation mode.
Constant power control		The power within the rated power range can be set to achieve constant power mode
Output resistance control		Emulates series resistance. Resistance range: $1\sim1000\text{m}\Omega$.
Voltage and current slope control		Programmable output rise and fall slopes. Programming range: 0.0001~999.9V/mS or A/mS
LIST dynamic output		Four LIST program files can be saved, and each file can edit up to 200 steps of data; There are three execution modes: count, loop and single step.
Timer function		0-9999 minutes can be set
Quick data storage/recall		It can store 4 groups of commonly used working data of voltage, current and other parameters, and can be quickly accessed through the digital buttons on the panel
Protection function		Output overvoltage protection, overcurrent protection, overload protection, over-temperature protection, short circuit protection, input undervoltage protection, overvoltage protection

DIGITAL PROGRAM CONTROL		300-9	400-7	500-5.5	600-4.5	1000-2.7	1200-2	1500-1.8	2000-1.4	2500-1	3000-0.9
Vout programming accuracy		0.05% of rated	5% of rated output voltage								
Iout programming accuracy		0.2% of rated of	6 of rated output current; (Models within 3A: 0.5% of rated output current)								
Vout programming resolution		0.002% of rate	d output voltage								
Iout programming resolution		0.002% of rate	02% of rated output current								
Vout readback accuracy		0.05% of rated	0.05% of rated output voltage								
Iout readback accuracy		0.2% of rated of	output current;	(Models within	3A: 0.5% of rat	ed output current)				
Vout readback resolution (of rated output voltage)	F.S.	0.004%	0.003%	0.003%	0.002%	0.011%	0.010%	0.007%	0.006%	0.005%	0.004%
Iout readback resolution (of rated output current))	F.S.	0.002%	0.002%	0.003%	0.003%	0.005%	0.005%	0.010%	0.010%	0.011%	0.015%
Communication interface		Built-in USB/F	RS-232/RS-485/C	CAN interface, op	otional LAN inte	rface;Supports M	odbus-RTU and	SCPI industry sta	andard communi	cation protocols.	

FRONT PANEL MONITORIN	NG AND	O CONTROL
Operation mode		Programmer knob,digital key and multi-function key
Display		5 digits OLED screen displays output voltage, current, power, working status and other information; Support Chinese and English menu switching display.
Voltage display accuracy		0.05% of rated output voltage±1count.
Current display accuracy		0.2% of rated output current±1count; (Models within 3A: 0.5% of rated output current±1count)
Voltage setting accuracy		0.05% of rated output voltage
Current setting accuracy		0.2% of rated output current (Models within 3A: 0.5% of rated output current)
Setpoint resolution		5 digits OLED; display format: 99999, current value decreases by one digit, decimal point automatically increases by one digit, maximum resolution:1mV; 1mA
Display value resolution		5 digits OLED; display format: 99999, current value decreases by one digit, decimal point automatically increases by one digit, maximum resolution: 1mV; 1mA (0.1mA@Models within 3A)

ENVIRONMENT APPLICAB	ENVIRONMENT APPLICABILITY							
Operating temperature	°C	S: Civil grade $(0^{\circ}\text{C} \sim +50^{\circ}\text{C})$; G: Industrial grade $(-25^{\circ}\text{C} \sim +55^{\circ}\text{C})$						
Storage temperature	°C	S: Civil grade $(-20^{\circ}\text{C} \sim +70^{\circ}\text{C})$; G: Industrial grade $(-30^{\circ}\text{C} \sim +85^{\circ}\text{C})$						
Operating humidity	%	20~90% RH (no condensation).						
Storage humidity	%	10~95% RH (no condensation).						
Cooling		Forced air cooling by internal fans. Air flow direction: from Front panel to power supply rear						

MECHANICAL		
Dimensions (WxHxD)	mm	W: 420, H: 43.5, D: 443 (Without busbars and busbars cover),
Weight	Kg	About 6.5Kg



DP 3400W series technical indicators (10V-200V)

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OUTPUT RATIN	G		10-340	20-170	30-112	40-85	50-68	60-56	80-42	100-34	150-23	200-17
Voltage adjustable	range (*1)	V	0~10.5	0~21	0 ~ 32	0 ~ 42	0 ~ 53	0 ~ 63	0 ~ 84	0~105	0 ~ 158	0~210
Current adjustable	range (*2)	A	0~357(*8)	0~180	0 ~ 120	0~90	0~72	0 ~ 60	0 ~ 44	0~36	0~24	0~18
Rated power (OPP=110% of rate	ed value)	W	3400	3400	3360	3400	3400	3400	3360	3400	3450	3400
INPUT CHARACTERISTICS			10-340	20-170	30-112	40-85	50-68	60-56	80-42	100-34	150-23	200-17
			B: Single pha	use 170~265Vac								
			C: Three-phase 170~265Vac (3W+G) / 47~63Hz									
Input voltage/frequ	iency		D: Three-pha	D: Three-phase 342~460Vac (3W+G) / 47~63Hz								
			E: Three-phase 342~528Vac (3W+G) / 47~63Hz									
Power Factor (Typ	١		For single-pha	se input models:	0.99@200Vac,	rated output po	wer.					
			For three-phas	e input models:	0.94@200/380V	ac, rated output	power.					
Efficiency at 200V rated output	Vac/380Vac,	%	87	88	88	89	89	89	90	90	90	90
CONSTANT VOI	LTAGE MOD	E	10-340	20-170	30-112	40-85	50-68	60-56	80-42	100-34	150-23	200-17
Max. Line regulation	on (*3)		0.01% of rated	l output voltage								
Max. Load regulati	ion (*4)		0.01% of rated	l output voltage+	5mV							
Ripple and noise (p-p, 20MHz)		mV	80	80	80	80	80	100	100	120	120	200
Ripple r.m.s. 5Hz~	1MHz	mV	12	12	12	12	12	20	20	20	20	60
Temperature coeffi				m rated output vo				I.	<u> </u>	I	1	<u>I</u>
Temperature stabili				Vout over 8hrs is			-	ine, load & temp				
Warm-up drift	,			% of rated output			•					
Sense compensatio	n (*5)	V	2	2	5	5	5	5	5	5	5	5
Rise response time		mS	30	30	30	30	30	50	50	50	50	50
Fall response time (*7)	Full load	mS	50	50	80	80	80	80	100	100	100	100
time (/)	No load	mS	600	1000	1500	2000	2500	2700	3000	3000	3500	4000
Transient response	time	mS	≤2mS (Time	for output voltag	e to recover with	in 0.5% of its rat	ted output for a lo	oad change 10~90)% of rated outpu	it current.)		
Start up delay \leq 6S (Turn on the power switch, the time when the power starts and enters standby mode)												
Start up delay		≤	6S (Turn on t	he power switch,	the time when the	ne power starts ar	nd enters standby	mode)				
CONSTANT CUE	RRENT MOI		6S (Turn on the 10-340	he power switch,	the time when the	40-85	od enters standby	mode) 60-56	80-42	100-34	150-23	200-17
. ,			10-340			-			80-42	100-34	150-23	200-17
CONSTANT CUF	on (*3)	DE	10-340 0.05% of rated	20-170		-			80-42	100-34	150-23	200-17
CONSTANT CUF Max. Line regulati Max. Load regulati Ripple r.m.s. @ ra	on (*3)	DE	10-340 0.05% of rated	20-170 doutput current.		-			80-42 ≤100	100-34 ≤60	150-23 ≤40	200-17 ≤30
CONSTANT CUE Max. Line regulation Max. Load regulation Ripple r.m.s. @ ra 3-Phase	on (*3) ion ited voltage.	DE	10-340 0.05% of rated 0.08% of rated ≤1200 10V~100V mc	20-170 I output current. I output current. ≤600 del: 100PPM/°C	30-112 ≤300 from rated outpu	40-85 ≤300 at current, follow	50-68 ≤250 sing 30 minutes w	60-56 ≤200 varm-up.				
CONSTANT CUE Max. Line regulatie Max. Load regulatie Ripple r.m.s. @ ra 3-Phase Temperature coeffi	ion (*3) ion ited voltage.	DE mA	10-340 0.05% of rated 0.08% of rated ≤1200 10V~100V mo 150V~200V y	20-170 I output current. I output current. ≤600 odel: 100PPM/°C model: 70PPM/od	30-112 ≤300 from rated output C from rated output	40-85 ≤300 at current, follow put current, follow	50-68 ≤250 ring 30 minutes wwing 30 minutes	60-56 ≤200 √arm-up. warm-up.	≤100			
CONSTANT CUE Max. Line regulation Max. Load regulation Ripple r.m.s. @ ra 3-Phase	ion (*3) ion ited voltage.	DE mA	10-340 0.05% of rated 0.08% of rated ≤1200 10V~100V mc 150V~200V mc 0.01% of rated	20-170 I output current. doutput current. \(\leq 600 \) odel: 100PPM/°C model: 70PPM/od I lout over 8hrs. in	30-112 ≤300 from rated output C from rated output nterval following	40-85 ≤300 at current, follow put current, follog 300 minutes war	50-68 ≤250 ring 30 minutes wwing 30 minutes m-up. Constant li	60-56 ≤200 varm-up. warm-up. ine, load & tempe	≤100			
CONSTANT CUE Max. Line regulatie Max. Load regulatie Ripple r.m.s. @ ra 3-Phase Temperature coeffi	ion (*3) ion ited voltage.	DE mA	10-340 0.05% of rated 0.08% of rated ≤1200 10V~100V mc 150V~200V to 0.01% of rated	20-170 I output current. I output current. ≤600 odel: 100PPM/°C model: 70PPM/od	≤300 from rated output C from rated olive interval following 0.25% of rated c	40-85 ≤300 at current, follow put current, follog 30 minutes war output current over	50-68 ≤250 ing 30 minutes wwing 30 minutes m-up. Constant Ler 30 minutes fol	≤200 varm-up. warm-up. ine, load & tempe	≤100			
CONSTANT CUE Max. Line regulati Max. Load regulati Ripple r.m.s. @ ra 3-Phase Temperature coeffi Temperature stabili	ion (*3) ion tted voltage. icient	DE mA	10-340 0.05% of rated 0.08% of rated ≤1200 10V~100V mc 150V~200V mc 150V~100V mc 150V~200V mc	20-170 I output current. d output current. ≤600 del: 100PPM/°C model: 70PPM/ot I lout over 8hrs. in del: Less than	≤300 from rated output C from rated output C from rated output conterval following to 25% of rated c ±0.15% of rated	≤300 at current, follow put current, follow g 30 minutes war output current ovoutput current ovoutput current o	50-68 ≤250 ing 30 minutes wwing 30 minutes m-up. Constant Ler 30 minutes fol	≤200 varm-up. warm-up. ine, load & tempe	≤100			
CONSTANT CUE Max. Line regulation Max. Load regulation Ripple r.m.s. @ ra 3-Phase Temperature coeffi Temperature stability Warm-up drift	on (*3) ion ited voltage. icient ity	DE mA	10-340 0.05% of rated 0.08% of rated ≤1200 10V~100V mc 150V~200V m 10V~100V mc 150V~200V m	20-170 I output current. d output current. ≤600 del: 100PPM/°C model: 70PPM/ot I lout over 8hrs. in del: Less than	≤300 from rated output C from rated output nterval following 0.25% of rated c ±0.15% of rated	40-85 ≤300 at current, follow put current, follog 30 minutes war output current ovoutput current ovo	50-68 ≤250 ing 30 minutes wwing 30 minutes of minutes follower 30 minutes	≤200 varm-up. warm-up. ine, load & tempe lowing power on. ollowing power or	≤100			
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CONSTANT CUE Max. Line regulati Max. Load regulati Ripple r.m.s. @ ra 3-Phase Temperature coeffi Temperature stabili Warm-up drift ANALOG PROG Vout voltage progra	ion (*3) ion ited voltage. icient ity RAMMING amming	DE mA AND M	10-340 0.05% of rated 0.08% of rated ≤1200 10V~100V mc 150V~200V m 150V~200V m 0.01% of rated 10V~100V mc 150V~200V m 0~100%, 0~5V 0~100%, 0~5V	20-170 I output current. <600 odel: 100PPM/°C model: 70PPM/ot I lout over 8hrs. in odel: Less than ± model: Less than SOLATED FRO / or 0~10V, user see	≤300 from rated output C from rated output C from rated output co.25% of rated co.15% of rat	40-85 ≤300 at current, follow put current, follow put current, follow 300 minutes war output current over output current or output curre	50-68 ≤250 ing 30 minutes wing 30 minutes mup. Constant liter 30 minutes follower 3	≤200 varm-up. warm-up. ine, load & tempe lowing power on ollowing power of	≤100			
CONSTANT CUE Max. Line regulati Max. Load regulati Ripple r.m.s. @ ra 3-Phase Temperature coeffi Temperature stabili Warm-up drift ANALOG PROG Vout voltage progra	on (*3) ion ited voltage. icient ity RAMMING amming amming amming	DE mA	10-340 0.05% of rated 0.08% of rated ≤1200 10V~100V mc 150V~200V m 150V~200V m 0.01% of rated 10V~100V mc 150V~200V m 0~100%, 0~5V 0~100%, 0~5V 0~100%, 0~5V	20-170 I output current. d output current. ≤600 odel: 100PPM/oC model: 70PPM/oC I lout over 8hrs. in odel: Less than ### Hodel: Less than #### HODE TO	≤300 from rated output C from rated output C from rated output C from rated output co.25% of rated c ±0.15% of rated C DM THE OUTP selectable. Accur selectable. Accur c, user selectable	40-85 ≤300 at current, follow put current, follow g 30 minutes war output current or output current	50-68 50-68 50-68 250 ing 30 minutes wing 30 minutes mup. Constant liter 30 minutes follower 30 minutes for the constant liter 30 minutes for the constant liter 30 minutes for the constant liter 30 minutes for iterative and include the constant literature with the constant	≤200 varm-up. warm-up. ine, load & tempe lowing power on ollowing power or old Vout. I lout. of rated Vout.	≤100			
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CONSTANT CUE Max. Line regulation Max. Load regulation Ripple r.m.s. @ ra 3-Phase Temperature coeffit Temperature stabilit Warm-up drift ANALOG PROG Vout voltage progra Vout resistor progra Output voltage mod	ion (*3) ion ited voltage. icient ity RAMMING amming amming amming amming amming amming amming amming amming	DE mA	10-340 0.05% of rated 0.08% of rated ≤1200 10V~100V mc 150V~200V m 150V~200V m 150V~200V m 0.01% of rated 10V~100W mc 150V~200V m 0~100%, 0~5V 0~100%, 0~5V 0~100%, 0~5V 0~5V or 0~10V 0~5V or 0~10V	20-170 I output current. ≤600 odel: 100PPM/oC model: 70PPM/ot I lout over 8hrs. is odel: Less than ± nodel: Less than ISOLATED FRC ✓ or 0~10V, user selectable 10Kohm full scal 10Kohm full scal V, user selectable	≤300 from rated output C from rated output C from rated output C from rated output co.25% of rated co.15% of	40-85 40-85 40-85 40-85 40-85 at current, follow put current, follow gard innutes war output current or output current or output current or acy and linearity acy acy and linearity acy acy and linearity acy acy and linearity acy acy and linearity acy acy and linearity acy and linearity acy acy and linearity acy acy and linearity acy acy acy acy acy acy acy acy acy ac	50-68 ≤250 sing 30 minutes wing 30 minutes mup. Constant Iter 30 minutes follower 3	≤200 varm-up. warm-up. ine, load & tempe lowing power on ollowing power or old Vout. I lout. of rated Vout.	≤100			
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CONSTANT CUE Max. Line regulati Max. Load regulati Ripple r.m.s. @ ra 3-Phase Temperature coeffi Temperature stabili Warm-up drift ANALOG PROG Vout voltage progra Iout voltage progra Vout resistor progra Output voltage mod Output current mod Remote switch on/	on (*3) ion ited voltage. icient ity RAMMING amming amming amming initor initor off D FEATURE	DE mA	10-340 0.05% of rated 0.08% of rated ≤1200 10V~100V mc 150V~200V mc 150V~200V mc 150V~200V mc 150V~200V mc 150V~200V mc 150V~5V o~100%, 0~5V 0~100%, 0~5V 0~5V or 0~10V High and low l	20-170 If output current. ≤600 odel: 100PPM/°C model: 70PPM/of If out over 8hrs. in odel: Less than ± model: Less than ± model: Less than model: Less than	≤300 from rated output C	40-85 ≤300 at current, follow put current, follow gar current or output current or output current or output current or acy and linearity acy acy and linearity acy acy and linearity acy acy and linearity acy acy acy acy acy acy acy acy acy ac	50-68 ≤250 sing 30 minutes wing 30 minutes mup. Constant I: er 30 minutes follower	≤200 varm-up. warm-up. ine, load & tempe lowing power on bllowing power of the Vout. I Jout. of rated Jout.	≤100	≤60	≤40	≤30
CONSTANT CUE Max. Line regulation Max. Load regulation Ripple r.m.s. @ ra 3-Phase Temperature coeffit Temperature stabilit Warm-up drift ANALOG PROG Vout voltage progra Vout resistor progra Output voltage mod Output current mod Remote switch on/of	en (*3) ion ited voltage. icient ity RAMMING amming amming amming onitor initor off D FEATURE	DE mA	10-340 0.05% of rated 0.08% of rated ≤1200 10V~100V mc 150V~200V m 150V~200V m 0.01% of rated 10V~100V mc 150V~200V m 0~100%, 0~5V 0~100%, 0~5V 0~100%, 0~5/ 0~5V or 0~10V High and low l Support series/sharing in mas	20-170 I output current. ≤600 odel: 100PPM/°C model: 70PPM/of I lout over 8hrs. in odel: Less than ± model: Less than ± model: Less than the condition of the co	≤300 from rated output C	40-85 ≤300 at current, follow put current, follow gao minutes war output current over output current over output current of acy and linearity of frated Vout 5% of rated Iout. power switch	50-68 ≤250 ring 30 minutes wing 30 minutes minup. Constant I: er 30 minutes follower 30 minutes followe	≤200 varm-up. warm-up. line, load & temporal lowing power on the color of the col	≤100	≤60	≤40	≤30
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CONSTANT CUE Max. Line regulati Max. Load regulati Ripple r.m.s. @ ra 3-Phase Temperature coeffi Temperature stabili Warm-up drift ANALOG PROG Vout voltage progra Iout voltage progra Output voltage more Output current more Remote switch on/ FUNCTIONS AN Series/parallel oper Constant power cor Output resistance cor Output resistance cor Output resistance cor	RAMMING amming a	DE	10-340 0.05% of rated 0.08% of rated ≤1200 10V~100V mc 150V~200V m 150V~200V m 0.01% of rated 10V~100V mc 150V~200V m 150V~200V m 150V~200V m 0~100%, 0~5V 0~100%, 0~5V 0~5V or 0~10V High and low m Support series/sharing in mas The power wit Emulates serie Programmable	20-170 If output current. If ou	≤300 from rated output C	40-85 40-85 40-85 40-85 at current, follow put current, follow gat current, follow gate current over the current of the c	50-68 ≤250 ring 30 minutes wing 30 minutes mup. Constant I: er 30 minutes follower	do-56 ≤200 varm-up. warm-up. ine, load & tempel lowing power on bllowing power on the down to the d	≤100 erature n. d power; Parallel	≤60	≤40	≤30
CONSTANT CUE Max. Line regulation Max. Load regulation Ripple r.m.s. @ ra 3-Phase Temperature coeffit Temperature stabilit Warm-up drift ANALOG PROG Vout voltage progra Vout voltage progra Vout resistor progra Output voltage mon Output current mon Remote switch on/or FUNCTIONS AN Series/parallel open Constant power con Output resistance con Voltage and cur control	RAMMING amming a	DE	10-340 0.05% of rated 0.08% of rated ≤1200 10V~100V mc 150V~200V m 150V~200V m 0.01% of rated 10V~100V mc 150V~200V m 150V~200V m 150V~200V m 0~100%, 0~5V 0~100%, 0~5V 0~5V or 0~10V High and low m Support series/sharing in mas The power wit Emulates serie Programmable	20-170 I output current. ≤600 odel: 100PPM/°C model: 70PPM/ot I lout over 8hrs. in odel: Less than ± dodel: Less than SOLATED FRC ✓ or 0~10V, user stand 10Kohm full scal 10kohm full scal	≤300 from rated output C	40-85 40-85 40-85 40-85 at current, follow put current, follow gat current, follow gate current over the current of the c	50-68 ≤250 ring 30 minutes wing 30 minutes mup. Constant I: er 30 minutes follower	do-56 ≤200 varm-up. warm-up. ine, load & tempel lowing power on bllowing power on the down to the d	≤100 erature n. d power; Parallel	≤60	≤40	≤30
CONSTANT CUE Max. Line regulati Max. Load regulati Ripple r.m.s. @ ra 3-Phase Temperature coeffi Temperature stabili Warm-up drift ANALOG PROG Vout voltage progra Iout voltage progra Output voltage more Output current more Remote switch on/ FUNCTIONS AN Series/parallel open Constant power cor Output resistance cor Voltage and cur control LIST dynamic output	RAMMING amming a	DE	10-340 0.05% of rated 0.08% of rated 0.08% of rated 10V~100V mc 150V~200V m 150V~100%, 0~5V 0~100%, 0~5V 0~100%, 0~5V 0~5V or 0~10V High and low l Support series/sharing in mas The power wit Emulates serie Programmable Four LIST pro 0-9999 minute	20-170 I output current. ≤600 odel: 100PPM/°C model: 70PPM/ot I lout over 8hrs. in odel: Less than ± dodel: Less than SOLATED FRC ✓ or 0~10V, user stand 10Kohm full scal 10kohm full scal	≤300 from rated output C from rated council	40-85 40-85 40-85 40-85 40-85 at current, follow put current, follow put current, follow g 30 minutes war output current or output current or output current or acy and linearity acy acy and linearity acy acy acy and linearity acy acy acy acy acy acy acy acy acy ac	50-68 50-68 ≤250 ing 30 minutes wing 30 minutes mup. Constant liter 30 minutes for 30 minutes for 30 minutes for 30 minutes for 40.4% of rates inearity: ±0.5% inearity: ±0.5% odel to expand ventation of the constant power model. 0001~999.9V/m 0 200 steps of data	sine, load & temper on the control of the control o	≤100 erature. n. d power; Parallel e execution mod	≤60 d connection is uses: count, loop ar	≤40	≤30
CONSTANT CUE Max. Line regulation Max. Load regulation Ripple r.m.s. @ ra 3-Phase Temperature coeffice Temperature stability Warm-up drift ANALOG PROG Vout voltage progration Iout voltage progration Iout voltage progration Output voltage mon Output current mon Remote switch on/ FUNCTIONS AN Series/parallel open Constant power con Output resistance of Voltage and cur control LIST dynamic output Timer function	ion (*3) ion ited voltage. icient ity RAMMING amming amming amming amming onitor nitor off D FEATURE ration ntrol control crent slope put	DE	10-340 0.05% of rated 0.08% of rated 0.08% of rated 10V~100V mc 150V~200V m 0.01% of rated 10V~100V mc 150V~200V m 0.01% of rated 10V~100W, 0~5V 0~100%, 0~5V 0~100%, 0~5V 0~5V or 0~10V High and low l Support series/sharing in mas The power wit Emulates serie Programmable Four LIST pro 0-9999 minute It can store 4 g	20-170 I output current. ≤600 odel: 100PPM/°C model: 70PPM/ot I lout over 8hrs. in odel: Less than todel: Less than	≤300 from rated output C from rated council	40-85 4	50-68 ≤250 ing 30 minutes wwing 30 minutes wring 30 minutes for the second s	sor A/mS ta; There are three	≤100 erature. n. d power; Parallel e execution mod can be quickly a	≤60 I connection is us es: count, loop ar	≤40 ed for automatic ad single step.	≤30

DIGITAL PROGRAM CONT	ROL	10-340	20-170	30-112	40-85	50-68	60-56	80-42	100-34	150-23	200-17
Vout programming accuracy		0.05% of rated	5% of rated output voltage								
Iout programming accuracy		0.1% of rated	output current								
Vout programming resolution		0.002% of rate	ed output voltage								
Iout programming resolution		0.002% of rate	02% of rated output current								
Vout readback accuracy		0.05% of rated	05% of rated output voltage								
Iout readback accuracy		0.1% of rated	output current								
Vout readback resolution (of rated output voltage)	F.S.	0.011%	0.006%	0.004%	0.003%	0.002%	0.002%	0.002%	0.011%	0.007%	0.005%
Iout readback resolution (of rated output current))	F.S.	0.004%	0.007%	0.010%	0.002%	0.002%	0.003%	0.004%	0.004%	0.005%	0.007%
Communication interface		Built-in USB/l	Built-in USB/RS-232/RS-485/CAN interface, optional LAN interface; Supports Modbus-RTU and SCPI industry standard communication protocols.								
FRONT PANEL MONITORIN	NG AND	CONTROL									

FRONT PANEL MONITORIN	NG AND	CONTROL
Operation mode		Programmer knob,digital key and multi-function key
Display		5 digits OLED screen displays output voltage, current, power, working status and other information; Support Chinese and English menu switching display.
Voltage display accuracy		0.05% of rated output voltage±1count.
Current display accuracy		0.1% of rated output current±1count.
Voltage setting accuracy		0.05% of rated output voltage
Current setting accuracy		0.1% of rated output current
Setpoint resolution		5 digits OLED; display format: 99999, current value decreases by one digit, decimal point automatically increases by one digit, maximum resolution:1mV; 1mA
Display value resolution		5 digits OLED; display format: 99999, current value decreases by one digit, decimal point automatically increases by one digit, maximum resolution: 1mV; 1mA

ENVIRONMENT APPLICAB	ILITY	
Operating temperature	°C	S: Civil grade $(0^{\circ}\text{C} \sim +50^{\circ}\text{C})$; G: Industrial grade $(-25^{\circ}\text{C} \sim +55^{\circ}\text{C})$
Storage temperature	°C	S: Civil grade $(-20^{\circ}\text{C} \sim +70^{\circ}\text{C})$; G: Industrial grade $(-30^{\circ}\text{C} \sim +85^{\circ}\text{C})$
Operating humidity	%	20~90% RH (no condensation).
Storage humidity	%	10~95% RH (no condensation).
Cooling		Forced air cooling by internal fans. Air flow direction: from Front panel to power supply rear

MECHANICAL		
Dimensions (WxHxD)	mm	W: 420, H: 43.5, D: 443 (Without busbars and busbars cover),
Weight	Kg	About 6.5Kg

I DP 3400W series technical indicators (300V-3000V)

C: Three-ph	400-8.5 0 ~ 420 0 ~ 9 3400 400-8.5 asse 170~265Vac (asse 170~265Vac (bs. 170~2	500-6.8 0 ~ 525 0 ~ 7.5 3400 500-6.8	600-5.6 0 ~ 630 0 ~ 6 3360	1000-3.4 0 ~ 1050 0 ~ 3.6 3400	1200-2.8 0 ~ 1260 0 ~ 3 3360	1500-2.3 0 ~ 1575 0 ~ 2.5 3450	2000-1.7 0 ~ 2100 0 ~ 1.8 3400	2500-1.35 0 ~ 2550 0 ~ 1.45 3375	3000-1.1 0 ~ 3050 0 ~ 1.2		
0~12 3450 300-11.5 B: Single pl C: Three-pl D: Three-pl	0 ~ 9 3400 400-8.5 nase 170~265Vac	0 ~ 7.5 3400	0 ~ 6 3360	0 ~ 3.6 3400	0~3	0 ~ 2.5	0~1.8	0~1.45	0~1.2		
3450 300-11.5 B: Single pl C: Three-ph D: Three-ph	3400 400-8.5 nase 170~265Vac	3400	3360	3400					-		
300-11.5 B: Single pl C: Three-ph D: Three-pl	400-8.5 nase 170~265Vac				3360	3450	3400	2275			
B: Single pl C: Three-ph D: Three-ph	nase 170~265Vac	500-6.8	600-5.6	4000 0 4				3373	3300		
C: Three-ph				1000-3.4	1200-2.8	1500-2.3	2000-1.7	2500-1.35	3000-1.1		
D: Three-pl	ase 170~265Vac (B: Single phase 170~265Vac								
-	,	3W+G) / 47~63H	Iz								
	ase 342~460Vac (
	`										
U 1											
For three-pha	se input models:	0.94@200/380V	ac, rated output	power.							
90	90	90	91	92	92	92	92	92	92		
300-11.5	400-8.5	500-6.8	600-5.6	1000-3.4	1200-2.8	1500-2.3	2000-1.7	2500-1.35	3000-1.1		
0.01% of rate	0.01% of rated output voltage										
0.01% of rate	d output voltage+.	5mV									
V 150	250	450	500	660	700	1000	1500	2000	2500		
V 30	50	90	100	150	170	200	300	450	600		
50PPM/°C ft	om rated output vo	oltage, following	30 minutes warn	n-up.							
0.01% of rate	d Vout over 8hrs i	nterval following	30 minutes war	m-up. Constant li	ne, load & temp.						
Less than 0.0	1% of rated outpu	t voltage+2mV o	ver 30 minutes fo	ollowing power o	n.						
5	5	5	5								
S 50	100	100	100	100	150	150	150	200	250		
S 100	200	200	200	200	220	220	250	250	280		
S 4000	4000	4500	5000	6000	6500	7000	8000	9000	10000		
S ≤2mS (Time	for output voltage	e to recover with	in 0.5% of its rate	ed output for a lo	ad change 10~90	% of rated outpu	t current.)	'			
6S (Turn on	the power switch,	the time when th	ne power starts ar	nd enters standby	mode)						
	For single-ph For three-pha 90 300-11.5 0.01% of rate 0.01% of rate 7 150 50PPM/°C fr 0.01% of rate Less than 0.0 5 5 100 4000 5 ≤2mS (Time	For single-phase input models: For three-phase input models: 90 90 300-11.5 400-8.5 0.01% of rated output voltage 0.01% of rated output voltage+ 7 150 250 7 30 50 50PPM/°C from rated output voltage to 0.01% of rated output voltage+ 0.01% of rated Vout over 8hrs in 1 Less than 0.01% of rated output 5 5 5 50 100 3 100 200 4 4000 4000 5 ≤2mS (Time for output voltage)	For single-phase input models: 0.99@200Vac, For three-phase input models: 0.94@200/380V 90 90 90 300-11.5 400-8.5 500-6.8 0.01% of rated output voltage 0.01% of rated output voltage+5mV 7 150 250 450 7 30 50 90 50PPM/°C from rated output voltage, following 0.01% of rated Vout over 8hrs interval following Less than 0.01% of rated output voltage+2mV or 5 5 5 5 50 100 100 100 6 100 200 200 6 4000 4000 4500 6 ≤2mS (Time for output voltage to recover with	For single-phase input models: 0.99@200Vac, rated output por For three-phase input models: 0.94@200/380Vac, rated output 90 90 90 91 91 300-11.5 400-8.5 500-6.8 600-5.6 0.01% of rated output voltage 0.01% of rated output voltage+5mV 7 150 250 450 500 7 30 50 90 100 50PPM/°C from rated output voltage, following 30 minutes warm 0.01% of rated Vout over 8hrs interval following 30 minutes warm Less than 0.01% of rated output voltage+2mV over 30 minutes for 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	For single-phase input models: 0.99@200Vac, rated output power. For three-phase input models: 0.94@200/380Vac, rated output power. 90 90 90 91 92 300-11.5 400-8.5 500-6.8 600-5.6 1000-3.4 0.01% of rated output voltage 0.01% of rated output voltage+5mV 7 150 250 450 500 660 7 30 50 90 100 150 50PPM/°C from rated output voltage, following 30 minutes warm-up. 0.01% of rated Vout over 8hrs interval following 30 minutes warm-up. Constant li Less than 0.01% of rated output voltage+2mV over 30 minutes following power or 5 5 5 5 5 5 50 100 100 100 100 100 100 3 100 200 200 200 200 200 5 ≤2mS (Time for output voltage to recover within 0.5% of its rated output for a logonic power.	For single-phase input models: 0.99@200Vac, rated output power. For three-phase input models: 0.94@200/380Vac, rated output power. 90 90 90 91 92 92 300-11.5 400-8.5 500-6.8 600-5.6 1000-3.4 1200-2.8 0.01% of rated output voltage 0.01% of rated output voltage+5mV 7 150 250 450 500 660 700 7 30 50 90 100 150 170 50PPM/°C from rated output voltage, following 30 minutes warm-up. 0.01% of rated Vout over 8hrs interval following 30 minutes warm-up. Constant line, load & temp. Less than 0.01% of rated output voltage+2mV over 30 minutes following power on. 5 5 5 5 5 5 100 100 100 100 100 100 150 3 100 200 200 200 200 200 220 5 ≤2mS (Time for output voltage to recover within 0.5% of its rated output for a load change 10~90	For single-phase input models: 0.99@200Vac, rated output power. For three-phase input models: 0.94@200/380Vac, rated output power. 90 90 90 91 92 92 92 300-11.5 400-8.5 500-6.8 600-5.6 1000-3.4 1200-2.8 1500-2.3 0.01% of rated output voltage 0.01% of rated output voltage+5mV 7 150 250 450 500 660 700 1000 7 30 50 90 100 150 170 200 50PPM/°C from rated output voltage, following 30 minutes warm-up. 0.01% of rated Vout over 8hrs interval following 30 minutes warm-up. Constant line, load & temp. Less than 0.01% of rated output voltage+2mV over 30 minutes following power on. 5 5 5 5 5 5 50 100 100 100 100 100 150 150 150 3 100 200 200 200 200 200 220 220 5 22mS (Time for output voltage to recover within 0.5% of its rated output for a load change 10-90% of rated output	For single-phase input models: 0.99@200Vac, rated output power. For three-phase input models: 0.94@200/380Vac, rated output power. 90 90 90 91 92 92 92 92 92 300-11.5 400-8.5 500-6.8 600-5.6 1000-3.4 1200-2.8 1500-2.3 2000-1.7 0.01% of rated output voltage 0.01% of rated output voltage+5mV 7 150 250 450 500 660 700 1000 1500 7 30 50 90 100 150 170 200 300 50PPM.°C from rated output voltage, following 30 minutes warm-up. 0.01% of rated Vout over 8hrs interval following 30 minutes warm-up. Constant line, load & temp. Less than 0.01% of rated output voltage+2mV over 30 minutes following power on. 5 5 5 5 5	For single-phase input models: 0.99@200Vac, rated output power. For three-phase input models: 0.94@200/380Vac, rated output power. 90 90 90 91 91 92 92 92 92 92 92 92 300-11.5 400-8.5 500-6.8 600-5.6 1000-3.4 1200-2.8 1500-2.3 2000-1.7 2500-1.35 0.01% of rated output voltage 0.01% of rated output voltage+5mV 7 150 250 450 500 660 700 1000 1500 2000 7 30 50 90 100 150 170 200 300 450 50PPM/°C from rated output voltage, following 30 minutes warm-up. 0.01% of rated Vout over 8hrs interval following 30 minutes warm-up. Constant line, load & temp. Less than 0.01% of rated output voltage+2mV over 30 minutes following power on. 5 5 5 5 5		

CONSTANT CURRENT MODE		300-11.5	400-8.5	500-6.8	600-5.6	1000-3.4	1200-2.8	1500-2.3	2000-1.7	2500-1.35	3000-1.1
Max. Line regulation (*3)		0.05% of rated	05% of rated output current.								
Max. Load regulation		Models above	els above 8A: 0.08% of rated output current; Models within 8A: 0.02% of rated output current+5mA								
Ripple r.m.s. 5Hz~1MHz	mA	≤20	≤20 ≤10 ≤10 ≤10 ≤8				≤5	≤5	≤5	≤5	≤5
Temperature coefficient		70PPM/oC fro	PPM/oC from rated output current, following 30 minutes warm-up.								
Temperature stability		0.01% of rated	01% of rated Iout over 8hrs. interval following 30 minutes warm-up. Constant line, load & temperature.								
Warm-up drift		Less than ±0.	s than ±0.15% of rated output current over 30 minutes following power on.								

ANALOG PROGRAMMING	ANALOG PROGRAMMING AND MONITORING (ISOLATED FROM THE OUTPUT)							
Vout voltage programming	1	0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: ±0.15% of rated Vout.						
Iout voltage programming 0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: ±0.4% of rated Iout.								
Vout resistor programming	1	0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: ±0.5% of rated Vout.						
Iout resistor programming		0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: ±0.5% of rated Iout.						
Output voltage monitor		0~5V or 0~10V, user selectable. Accuracy: ±0.5% of rated Vout.						
Output current monitor	-	0~5V or 0~10V, user selectable. Accuracy: ±0.5% of rated lout.						
Remote switch on/off	-	High and low level or dry contact signal control power switch						

FUNCTIONS AND FEATURE	es .	
Series/parallel operation		Support series/parallel operation of the same specification and model to expand voltage, current and power; Parallel connection is used for automatic current sharing in master-slave operation mode.
Constant power control		The power within the rated power range can be set to achieve constant power mode
Output resistance control		Emulates series resistance. Resistance range: $1\sim1000\text{m}\Omega$.
Voltage and current slope control		Programmable output rise and fall slopes. Programming range: 0.0001~999.9V/mS or A/mS
LIST dynamic output		Four LIST program files can be saved, and each file can edit up to 200 steps of data; There are three execution modes: count, loop and single step.
Timer function		0-9999 minutes can be set
Quick data storage/recall		It can store 4 groups of commonly used working data of voltage, current and other parameters, and can be quickly accessed through the digital buttons on the panel
Protection function		Output overvoltage protection, overcurrent protection, overload protection, over-temperature protection, short circuit protection, input undervoltage protection, overvoltage protection

DIGITAL PROGRAM CONTROL		300-11.5	400-8.5	500-6.8	600-5.6	1000-3.4	1200-2.8	1500-2.3	2000-1.7	2500-1.35	3000-1.1	
Vout programming accuracy		0.05% of rated	0.05% of rated output voltage									
Iout programming accuracy		0.2% of rated of	.2% of rated output current; (Models within 3A: 0.5% of rated output current)									
Vout programming resolution		0.002% of rate	d output voltage									
Iout programming resolution		0.002% of rate	0.002% of rated output current									
Vout readback accuracy		0.05% of rated	0.05% of rated output voltage									
Iout readback accuracy		0.2% of rated of	output current;	(Models within	3A: 0.5% of rat	ed output current	:)					
Vout readback resolution (of rated output voltage)	F.S.	0.004%	0.003%	0.003%	0.002%	0.011%	0.010%	0.007%	0.006%	0.005%	0.004%	
Iout readback resolution (of rated output current))	F.S.	0.010%	0.002%	0.002%	0.003%	0.004%	0.004%	0.005%	0.008%	0.010%	0.010%	
Communication interface		Built-in USB/I	RS-232/RS-485/C	CAN interface, op	otional LAN inter	rface;Supports M	odbus-RTU and	SCPI industry sta	andard communic	cation protocols.		

FRONT PANEL MONITORIN	FRONT PANEL MONITORING AND CONTROL								
Operation mode		Programmer knob,digital key and multi-function key							
Display		5 digits OLED screen displays output voltage, current, power, working status and other information; Support Chinese and English menu switching display.							
Voltage display accuracy		0.05% of rated output voltage±1count.							
Current display accuracy		0.2% of rated output current±1count.; (Models within 3A: 0.5% of rated output current±1count.)							
Voltage setting accuracy		0.05% of rated output voltage							
Current setting accuracy		0.2% of rated output current; (Models within 3A: 0.5% of rated output current)							
Setpoint resolution		5 digits OLED; display format: 99999, current value decreases by one digit, decimal point automatically increases by one digit, maximum resolution:1mV; 1mA							
Display value resolution		5 digits OLED; display format: 99999, current value decreases by one digit, decimal point automatically increases by one digit, maximum resolution: lmV; lmA (0.1mA@Models within 3A)							

ENVIRONMENT APPLICAB	ENVIRONMENT APPLICABILITY								
Operating temperature	°C	S: Civil grade $(0^{\circ}\text{C} \sim +50^{\circ}\text{C})$; G: Industrial grade $(-25^{\circ}\text{C} \sim +55^{\circ}\text{C})$							
Storage temperature °C S: Civil grade (-20°C ~+70°C) ; G: Industrial grade (-30°C ~+85°C)									
Operating humidity	%	20~90% RH (no condensation).							
Storage humidity	%	10~95% RH (no condensation).							
Cooling		Forced air cooling by internal fans. Air flow direction: from Front panel to power supply rear							

MECHANICAL	MECHANICAL							
Dimensions (WxHxD)	mm	W: 420, H: 43.5, D: 443 (Without busbars and busbars cover),						
Weight	Kg	About 6.5Kg						



DP 5000W series technical indicators (10V-200V)

OUTPUT RATIN	G		10-500	20-250	30-170	40-125	50-100	60-85	80-65	100-50	150-34	200-25
Voltage adjustable	range (*1)	V	0~10.5	0~21	0~32	0~42	0 ~ 53	0 ~ 63	0~84	0~105	0~158	0~210
Current adjustable	range (*2)	A	0 ~ 525 (*8)	0~263	0 ~ 180	0~132	0~105	0 ~ 90	0~68	0 ~ 54	0~36	0~27
Rated power (OP rated value)	P=110% of	W	5000	5000	5100	5000	5000	5100	5200	5000	5100	5000
INPUT CHARAC	TERISTICS		10-500	20-250	30-170	40-125	50-100	60-85	80-65	100-50	150-34	200-25
					3W+G) / 47~63I							
Input voltage/frequ	iency				(3W+G) / 47~63I							
D F (T	`		•	,	3W+G) / 47~63F	lz						
Power Factor (Typ Efficiency at 200V rated output		%	0.94@200/380 88	OVac, rated outp	90	90	91	91	91	91	91	91
CONSTANT VOI	TAGE MOD	ÞΕ	10-500	20-250	30-170	40-125	50-100	60-85	80-65	100-50	150-34	200-25
Max. Line regulation	on (*3)		0.01% of rated	l output voltage	•	•	'	•				
Max. Load regulati	ion (*4)		0.01% of rated	l output voltage+	5mV							
Ripple and noise (p-p, 20MHz)		mV	80	80	80	80	80	100	100	120	120	200
Ripple r.m.s. 5Hz~	1MHz	mV	12	12	12	12	12	20	20	20	20	60
Temperature coeffi	cient		50PPM/°C fro	m rated output v	oltage, following	30 minutes warn	n-up.					
Temperature stabil	ity		0.01% of rated	Vout over 8hrs	interval following	g 30 minutes war	m-up. Constant l	ine, load & temp.				
Warm-up drift			Less than 0.01	% of rated outpu	t voltage+2mV o	ver 30 minutes f	ollowing power of	on.				
Sense compensation	n (*5)	V	2	2	5	5	5	5	5	5	5	5
Rise response time	(*6)	mS	30	30	30	30	30	50	50	50	50	50
Fall response	Full load	mS	50	50	80	80	80	80	100	100	100	100
time (*7)	No load	mS	600	900	1500	1500	2000	2000	2500	2500	3000	3500
Transient response	time	mS	≤2mS (Time	for output voltag	ge to recover with	nin 0.5% of its ra	ted output for a le	oad change 10~90	1	it current.)		1
Start up delay		<u>≤</u>	6S (Turn on t	he power switch,	, the time when the	ne power starts a	nd enters standby	mode)				
CONSTANT CUE	RRENT MOI	ЭE	10-500	20-250	30-170	40-125	50-100	60-85	80-65	100-50	150-34	200-25
Max. Line regulation	on (*3)		0.05% of rated	d output current.								
Max. Load regulati	ion		0.08% of rated	d output current.								
Ripple r.m.s. 5Hz~	1MHz	mA	≤1200	≤600	≤300	≤150	≤120	≤100	≤70	≤45	≤45	≤45
Temperature coeffi	cient		10V~100V model: 100PPM/°C from rated output current, following 30 minutes warm-up. 150V~200V model: 70PPM/°C from rated output current, following 30 minutes warm-up.									
Temperature stabil	ity							ine, load & temp	erature.			
-	·		10V~100V mo	odel: Less than	±0.25% of rated of	output current ov	er 30 minutes fol	llowing power on				
Warm-up drift			150V~200V n	nodel: Less than	±0.15% of rated	output current o	ver 30 minutes fo	ollowing power o	n.			
ANALOG PROG	RAMMING	AND M	ONITORING (ISOLATED FR	OM THE OUT	PUT)						
Vout voltage progr	amming		0~100%, 0~5	V or 0~10V, user	selectable. Accur	acy and linearity	r: ±0.15% of rat	ed Vout.				
Iout voltage progra	mming		0~100%, 0~5	V or 0~10V, user	selectable. Accur	acy and linearity	r: ±0.4% of rate	d Iout.				
Vout resistor progra	amming		0~100%, 0~5/	10Kohm full sca	le, user selectable	e. Accuracy and l	linearity: ±0.5%	of rated Vout.				
Iout resistor progra	mming		0~100%, 0~5/	10Kohm full sca	le, user selectable	e. Accuracy and	linearity: ±0.5%	of rated Iout.				
Output voltage mo	nitor		0~5V or 0~10	V, user selectable	e. Accuracy: ±0.	5% of rated Vout						
Output current mor	nitor		0~5V or 0~10	V, user selectable	e. Accuracy: ±0.	5% of rated Iout.						
Remote switch on/	off		High and low	level or dry conta	act signal control	power switch						
FUNCTIONS A	ND FEATU	RES										
Series/parallel oper	ration			parallel operation ster-slave operation		ecification and m	odel to expand v	oltage, current an	d power; Paralle	connection is us	sed for automatic	current
Constant power co	ntrol		The power wit	thin the rated pov	ver range can be	set to achieve co	nstant power mo	de				
Output resistance of			Emulates serie	es resistance. Res	istance range: 1~	1000mΩ.						
Voltage and cur control	rent slope		Programmable	output rise and	fall slopes. Progr	amming range: 0	0.0001~999.9V/m	nS or A/mS				
LIST dynamic outp	out		Four LIST pro	gram files can be	e saved, and each	file can edit up	to 200 steps of da	ata; There are thre	e execution mod	es: count, loop ar	nd single step.	
Timer function			0-9999 minute	es can be set								
Quick data storage	/recall		It can store 4 g	groups of commo	nly used working	g data of voltage,	current and othe	er parameters, and	can be quickly a	ccessed through	the digital buttor	ns on the panel
Protection function	ı		Output overvo overvoltage pr		overcurrent prote	ection, overload	protection, over-t	temperature prote	ction, short circu	it protection, inp	ut undervoltage p	protection,

DIGITAL PROGRAM CONTROL		10-500	20-250	30-170	40-125	50-100	60-85	80-65	100-50	150-34	200-25		
Vout programming accuracy		0.05% of rated	.05% of rated output voltage										
Iout programming accuracy		0.1% of rated	0.1% of rated output current										
Vout programming resolution		0.002% of rate	002% of rated output voltage										
Iout programming resolution		0.002% of rate	0.002% of rated output current										
Vout readback accuracy		0.05% of rated	0.05% of rated output voltage										
Iout readback accuracy		0.1% of rated	0.1% of rated output current										
Vout readback resolution (of rated output voltage)	F.S.	0.011%	0.006%	0.004%	0.003%	0.002%	0.002%	0.002%	0.011%	0.007%	0.005%		
Iout readback resolution (of rated output current))	F.S.	0.003%	0.005%	0.006%	0.009%	0.011%	0.002%	0.002%	0.003%	0.004%	0.004%		
Communication interface		Built-in USB/l	RS-232/RS-485/C	CAN interface, op	otional LAN inte	rface;Supports M	lodbus-RTU and	SCPI industry sta	andard communi	cation protocols.			

FRONT PANEL MONITORIN	FRONT PANEL MONITORING AND CONTROL								
Operation mode		Programmer knob,digital key and multi-function key							
Display		5 digits OLED screen displays output voltage, current, power, working status and other information; Support Chinese and English menu switching display.							
Voltage display accuracy		0.05% of rated output voltage±1count.							
Current display accuracy		0.1% of rated output current±1count.							
Voltage setting accuracy		0.05% of rated output voltage							
Current setting accuracy		0.1% of rated output current							
Setpoint resolution		5 digits OLED; display format: 99999, current value decreases by one digit, decimal point automatically increases by one digit, maximum resolution:1mV; 1mA							
Display value resolution		5 digits OLED; display format: 99999, current value decreases by one digit, decimal point automatically increases by one digit, maximum resolution: 1mV; 1mA (0.1mA@Models within 3A)							

ENVIRONMENT APPLICAB	ENVIRONMENT APPLICABILITY							
Operating temperature	°C	S: Civil grade $(0^{\circ}C \sim +50^{\circ}C)$; G: Industrial grade $(-25^{\circ}C \sim +55^{\circ}C)$						
Storage temperature	°C	S: Civil grade $(-20^{\circ}\text{C} \sim +70^{\circ}\text{C})$; G: Industrial grade $(-30^{\circ}\text{C} \sim +85^{\circ}\text{C})$						
Operating humidity	%	20~90% RH (no condensation).						
Storage humidity	%	10~95% RH (no condensation).						
Cooling		Forced air cooling by internal fans. Air flow direction: from Front panel to power supply rear						

MECHANICAL	MECHANICAL								
Dimensions (WxHxD)	Dimensions (WxHxD) mm W: 420, H: 43.5, D: 443 (Without busbars and busbars cover),								
Weight	Kg	About 7.5Kg							

DP 5000W series technical indicators (300V-3000V)

	300-17	400-13	500-10	600-8.5	1000-5	1200-4.2	1500-3.4	2000-2.5	2500-2	3000-1.7		
V	0~315	0~420	0 ~ 525	0 ~ 630	0 ~ 1050	0 ~ 1260	0 ~ 1575	0~2100	0 ~ 2550	0 ~ 3050		
A	0~18	0~14	0~11	0~9	0 ~ 5.3	0~4.5	0~3.6	0~2.7	0~21	0~1.8		
W	5100	5200	5000	5100	5000	5040	5100	5000	5000	5100		
INPUT CHARACTERISTICS			500-10	600-8.5	1000-5	1200-4.2	1500-3.4	2000-2.5	2500-2	3000-1.7		
	C: Three-pha	se 170~265Vac (3	3W+G) / 47~63H	Iz								
	D: Three-pha	se 342~460Vac (3W+G) / 47~63I	łz								
	E: Three-pha	E: Three-phase 342~528Vac (3W+G) / 47~63Hz										
	0.94@200/380	Vac, rated outpu	ut power.									
%	92	92	92	92	93	93	93	93	93	93		
CONSTANT VOLTAGE MODE			500-10	600-8.5	1000-5	1200-4.2	1500-3.4	2000-2.5	2500-2	3000-1.7		
	0.01% of rated output voltage											
	0.01% of rated output voltage+5mV											
mV	150	250	450	500	660	700	1000	1500	2000	2500		
mV	30	50	90	100	150	170	200	300	450	600		
	50PPM/°C from rated output voltage, following 30 minutes warm-up.											
	0.01% of rated Vout over 8hrs interval following 30 minutes warm-up. Constant line, load & temp.											
	Less than 0.01	% of rated output	t voltage+2mV o	ver 30 minutes fo	ollowing power o	n.						
V	5	5	5	5								
mS	50	100	100	100	100	150	150	150	200	250		
mS	100	200	200	200	200	220	220	250	250	280		
mS	4000	4000	4500	5000	6000	6500	7000	8000	9000	10000		
mS	≤2mS (Time	for output voltag	e to recover with	in 0.5% of its rat	ed output for a lo	ad change 10~90)% of rated outpu	it current.)				
	6S (Turn on the power switch, the time when the power starts and enters standby mode)											
	A W S S S S S S S S S S S S S S S S S S S	V 0~315 A 0~18 W 5100 S 300-17 C: Three-pha D: Three-pha D: Three-pha 0.94@200/380 % 92 DDE 300-17 0.01% of rated mV 150 mV 30 50PPM/°C fro 0.01% of rated Less than 0.01 V 5 mS 50 mS 100 mS 4000	V 0 ~ 315 0 ~ 420 A 0 ~ 18 0 ~ 14 W 5100 5200 S 300-17 400-13 C: Three-phase 170~265Vac (3) D: Three-phase 342~460Vac (4) E: Three-phase 342~528Vac (7) 0.94@200/380Vac, rated output % 92 92 DDE 300-17 400-13 0.01% of rated output voltage mV 150 250 mV 30 50 50PPM/°C from rated output voltage Less than 0.01% of rated Vout over 8hrs i Less than 0.01% of rated output voltage 50 PPM/°C from rated output voltage Less than 0.01% of rated volt over 8hrs i <t< td=""><td>V 0~315 0~420 0~525 A 0~18 0~14 0~11 W 5100 5200 5000 300-17 400-13 500-10 C: Three-phase 170~265Vac (3W+G) / 47~63F D: Three-phase 342~460Vac (3W+G) / 47~63F 0.94@200/380Vac, rated output power. % 92 92 92 DE 300-17 400-13 500-10 0.01% of rated output voltage 0.01% of rated output voltage 0.01% of rated output voltage+5mV mV 30 50 90 50PPM/°C from rated output voltage, following 50PPM/°C from rated output voltage, following Less than 0.01% of rated output voltage+2mV or V 5 5 mS 50 100 100 mS 4000 4000 4500</td><td>V 0~315 0~420 0~525 0~630 A 0~18 0~14 0~11 0~9 W 5100 5200 5000 5100 300-17 400-13 500-10 600-8.5 C: Three-phase 170~265Vac (3W+G) / 47~63Hz D: Three-phase 342~460Vac (3W+G) / 47~63Hz E: Three-phase 342~528Vac (3W+G) / 47~63Hz 0.94@200/380Vac, rated output power. % 92 92 92 92 DE 300-17 400-13 500-10 600-8.5 0.01% of rated output voltage 0.01% of rated output voltage+5mV mV 150 250 450 500 mV 30 50 90 100 50PPM/°C from rated output voltage, following 30 minutes warn 0.01% of rated Vout over 8hrs interval following 30 minutes warn 50 5 5 mS 50 100 100 100</td><td>V 0~315 0~420 0~525 0~630 0~1050 A 0~18 0~14 0~11 0~9 0~5.3 W 5100 5200 5000 5100 5000 300-17 400-13 500-10 600-8.5 1000-5 C: Three-phase 170-265Vac (3W+G) / 47~63Hz D: Three-phase 342~460Vac (3W+G) / 47~63Hz 0.94@200/380Vac, rated output power. % 92 92 92 92 93 DDE 300-17 400-13 500-10 600-8.5 1000-5 0.01% of rated output voltage 0.01% of rated output voltage+5mV mV 150 250 450 500 660 mV 30 50 90 100 150 50PPM/°C from rated output voltage, following 30 minutes warm-up. 50PPM/°C from rated output voltage+2mV over 30 minutes following power over 30 minutes following power over 30 minutes following 20 5 5 mS 50 100</td><td>V 0 ~ 315 0 ~ 420 0 ~ 525 0 ~ 630 0 ~ 1050 0 ~ 1260 A 0 ~ 18 0 ~ 14 0 ~ 11 0 ~ 9 0 ~ 5.3 0 ~ 4.5 W 5100 5200 5000 5100 5000 5040 B 300-17 400-13 500-10 600-8.5 1000-5 1200-4.2 C: Three-phase 170-265Vac (3W+G) / 47~63Hz D: Three-phase 342~528Vac (3W+G) / 47~63Hz E: Three-phase 342~528Vac (3W+G) / 47~63Hz 0.94@200/380Vac, rated output power. 92 92 92 93 93 DDE 300-17 400-13 500-10 600-8.5 1000-5 1200-4.2 0.01% of rated output voltage 0.01% of rated output voltage+5mV mV 150 250 450 500 660 700 mV 30 50 90 100 150 170 50PPM/°C from rated output voltage, following 30 minutes warm-up. Cnstant line, load & temp. </td></t<> <td>V 0~315 0~420 0~525 0~630 0~1050 0~1260 0~1575 A 0~18 0~14 0~11 0~9 0~5.3 0~4.5 0~3.6 W 5100 5200 5000 5100 5000 5040 5100 S 300-17 400-13 500-10 600-8.5 1000-5 1200-4.2 1500-3.4 C: Three-phase 170-265Vac (3W+G) / 47-63Hz E: Three-phase 342-460Vac (3W+G) / 47-63Hz D.94@200/380Vac, rated output power. 92 92 92 93 93 93 DDE 300-17 400-13 500-10 600-8.5 1000-5 1200-4.2 1500-3.4 0.01% of rated output voltage 0.01% of rated output voltage 0.01% of rated output voltage+5mV mV 30 50 90 100 150 170 200 50PPM/°C from rated output voltage, following 30 minutes warm-up. 0.01% of rated Vout over 8hrs interval following 30 minutes warm-up. Constant line, load</td> <td>V 0~315 0~420 0~525 0~630 0~1050 0~1260 0~1575 0~2100 A 0~18 0~14 0~11 0~9 0~5.3 0~4.5 0~3.6 0~2.7 W 5100 5200 5000 5100 5000 5040 5100 5000 300-17 400-13 500-10 600-8.5 1000-5 1200-4.2 1500-3.4 2000-2.5 C: Three-phase 170-265Vac (3W+G) / 47-63Hz 1.00</td> <td>V 0 ~ 315 0 ~ 420 0 ~ 525 0 ~ 630 0 ~ 1050 0 ~ 1260 0 ~ 1575 0 ~ 2100 0 ~ 2550 A 0 ~ 18 0 ~ 14 0 ~ 11 0 ~ 9 0 ~ 5.3 0 ~ 4.5 0 ~ 3.6 0 ~ 2.7 0 ~ 2.1 W 5100 5200 5000 5100 5000 5040 5100 5000 5000 S 300-17 400-13 500-10 600-8.5 1000-5 1200-4.2 1500-3.4 2000-2.5 2500-2 C: Three-phase 170-265Vac (3W+G) / 47~63Hz E: Three-phase 342~528Vac (3W+G) / 47~63Hz 0.94@200/380Vac, rated output power. 0.94@200/380Vac, rated output power. </td>	V 0~315 0~420 0~525 A 0~18 0~14 0~11 W 5100 5200 5000 300-17 400-13 500-10 C: Three-phase 170~265Vac (3W+G) / 47~63F D: Three-phase 342~460Vac (3W+G) / 47~63F 0.94@200/380Vac, rated output power. % 92 92 92 DE 300-17 400-13 500-10 0.01% of rated output voltage 0.01% of rated output voltage 0.01% of rated output voltage+5mV mV 30 50 90 50PPM/°C from rated output voltage, following 50PPM/°C from rated output voltage, following Less than 0.01% of rated output voltage+2mV or V 5 5 mS 50 100 100 mS 4000 4000 4500	V 0~315 0~420 0~525 0~630 A 0~18 0~14 0~11 0~9 W 5100 5200 5000 5100 300-17 400-13 500-10 600-8.5 C: Three-phase 170~265Vac (3W+G) / 47~63Hz D: Three-phase 342~460Vac (3W+G) / 47~63Hz E: Three-phase 342~528Vac (3W+G) / 47~63Hz 0.94@200/380Vac, rated output power. % 92 92 92 92 DE 300-17 400-13 500-10 600-8.5 0.01% of rated output voltage 0.01% of rated output voltage+5mV mV 150 250 450 500 mV 30 50 90 100 50PPM/°C from rated output voltage, following 30 minutes warn 0.01% of rated Vout over 8hrs interval following 30 minutes warn 50 5 5 mS 50 100 100 100	V 0~315 0~420 0~525 0~630 0~1050 A 0~18 0~14 0~11 0~9 0~5.3 W 5100 5200 5000 5100 5000 300-17 400-13 500-10 600-8.5 1000-5 C: Three-phase 170-265Vac (3W+G) / 47~63Hz D: Three-phase 342~460Vac (3W+G) / 47~63Hz 0.94@200/380Vac, rated output power. % 92 92 92 92 93 DDE 300-17 400-13 500-10 600-8.5 1000-5 0.01% of rated output voltage 0.01% of rated output voltage+5mV mV 150 250 450 500 660 mV 30 50 90 100 150 50PPM/°C from rated output voltage, following 30 minutes warm-up. 50PPM/°C from rated output voltage+2mV over 30 minutes following power over 30 minutes following power over 30 minutes following 20 5 5 mS 50 100	V 0 ~ 315 0 ~ 420 0 ~ 525 0 ~ 630 0 ~ 1050 0 ~ 1260 A 0 ~ 18 0 ~ 14 0 ~ 11 0 ~ 9 0 ~ 5.3 0 ~ 4.5 W 5100 5200 5000 5100 5000 5040 B 300-17 400-13 500-10 600-8.5 1000-5 1200-4.2 C: Three-phase 170-265Vac (3W+G) / 47~63Hz D: Three-phase 342~528Vac (3W+G) / 47~63Hz E: Three-phase 342~528Vac (3W+G) / 47~63Hz 0.94@200/380Vac, rated output power. 92 92 92 93 93 DDE 300-17 400-13 500-10 600-8.5 1000-5 1200-4.2 0.01% of rated output voltage 0.01% of rated output voltage+5mV mV 150 250 450 500 660 700 mV 30 50 90 100 150 170 50PPM/°C from rated output voltage, following 30 minutes warm-up. Cnstant line, load & temp.	V 0~315 0~420 0~525 0~630 0~1050 0~1260 0~1575 A 0~18 0~14 0~11 0~9 0~5.3 0~4.5 0~3.6 W 5100 5200 5000 5100 5000 5040 5100 S 300-17 400-13 500-10 600-8.5 1000-5 1200-4.2 1500-3.4 C: Three-phase 170-265Vac (3W+G) / 47-63Hz E: Three-phase 342-460Vac (3W+G) / 47-63Hz D.94@200/380Vac, rated output power. 92 92 92 93 93 93 DDE 300-17 400-13 500-10 600-8.5 1000-5 1200-4.2 1500-3.4 0.01% of rated output voltage 0.01% of rated output voltage 0.01% of rated output voltage+5mV mV 30 50 90 100 150 170 200 50PPM/°C from rated output voltage, following 30 minutes warm-up. 0.01% of rated Vout over 8hrs interval following 30 minutes warm-up. Constant line, load	V 0~315 0~420 0~525 0~630 0~1050 0~1260 0~1575 0~2100 A 0~18 0~14 0~11 0~9 0~5.3 0~4.5 0~3.6 0~2.7 W 5100 5200 5000 5100 5000 5040 5100 5000 300-17 400-13 500-10 600-8.5 1000-5 1200-4.2 1500-3.4 2000-2.5 C: Three-phase 170-265Vac (3W+G) / 47-63Hz 1.00	V 0 ~ 315 0 ~ 420 0 ~ 525 0 ~ 630 0 ~ 1050 0 ~ 1260 0 ~ 1575 0 ~ 2100 0 ~ 2550 A 0 ~ 18 0 ~ 14 0 ~ 11 0 ~ 9 0 ~ 5.3 0 ~ 4.5 0 ~ 3.6 0 ~ 2.7 0 ~ 2.1 W 5100 5200 5000 5100 5000 5040 5100 5000 5000 S 300-17 400-13 500-10 600-8.5 1000-5 1200-4.2 1500-3.4 2000-2.5 2500-2 C: Three-phase 170-265Vac (3W+G) / 47~63Hz E: Three-phase 342~528Vac (3W+G) / 47~63Hz 0.94@200/380Vac, rated output power. 0.94@200/380Vac, rated output power.		

CONSTANT CURRENT MODE		300-17	400-13	500-10	600-8.5	1000-5	1200-4.2	1500-3.4	2000-2.5	2500-2	3000-1.7
Max. Line regulation (*3)		0.05% of rated output current.									
Max. Load regulation		Models above	8A: 0.08% of rat	ed output current	; Models within	8A: 0.02% of rat	ed output current	+5mA			
Ripple r.m.s. 5Hz~1MHz	mA	≤20	≤10	≤10	≤10	≤10	≤10	≤10	≤8	≤8	≤8
Temperature coefficient		70PPM/°C from rated output current, following 30 minutes warm-up.									
Temperature stability		0.01% of rated lout over 8hrs. interval following 30 minutes warm-up. Constant line, load & temperature.									
Warm-up drift		Less than ±0.15% of rated output current over 30 minutes following power on.									

ANALOG PROGRAMMING AND MONITORING (ISOLATED FROM THE OUTPUT)					
Vout voltage programming	1	-100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: ±0.15% of rated Vout.			
Iout voltage programming	-	0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: ±0.4% of rated Iout.			
Vout resistor programming	1	0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: ±0.5% of rated Vout.			
Iout resistor programming		0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: ±0.5% of rated Iout.			
Output voltage monitor		0~5V or 0~10V, user selectable. Accuracy: ±0.5% of rated Vout.			
Output current monitor	-	0~5V or 0~10V, user selectable. Accuracy: ±0.5% of rated lout.			
Remote switch on/off	-	High and low level or dry contact signal control power switch			

FUNCTIONS AND FEATURES					
Series/parallel operation		Support series/parallel operation of the same specification and model to expand voltage, current and power; Parallel connection is used for automatic current sharing in master-slave operation mode.			
Constant power control		The power within the rated power range can be set to achieve constant power mode			
Output resistance control		Emulates series resistance. Resistance range: $1\sim1000\text{m}\Omega$.			
Voltage and current slope control		Programmable output rise and fall slopes. Programming range: 0.0001~999.9V/mS or A/mS			
LIST dynamic output		Four LIST program files can be saved, and each file can edit up to 200 steps of data; There are three execution modes: count, loop and single step.			
Timer function		0-9999 minutes can be set			
Quick data storage/recall		It can store 4 groups of commonly used working data of voltage, current and other parameters, and can be quickly accessed through the digital buttons on the panel			
Protection function		Output overvoltage protection, overcurrent protection, overload protection, over-temperature protection, short circuit protection, input undervoltage protection, overvoltage protection			

DIGITAL PROGRAM CONTROL		300-17	400-13	500-10	600-8.5	1000-5	1200-4.2	1500-3.4	2000-2.5	2500-2	3000-1.7
Vout programming accuracy		0.05% of rated	0.05% of rated output voltage								
Iout programming accuracy		0.2% of rated of	0.2% of rated output current; (Models within 10A: 0.1% of rated output current; Models within 3A: 0.5% of rated output current)								
Vout programming resolution		0.002% of rate	.002% of rated output voltage								
Iout programming resolution		0.002% of rate	0.002% of rated output current								
Vout readback accuracy		0.05% of rated output voltage									
Iout readback accuracy		0.2% of rated output current; (Models within 10A: 0.1% of rated output current; Models within 3A: 0.5% of rated output current)									
Vout readback resolution (of rated output voltage)	F.S.	0.004%	0.003%	0.003%	0.002%	0.011%	0.010%	0.007%	0.006%	0.005%	0.004%
Iout readback resolution (of rated output current))	F.S.	0.006%	0.009%	0.011%	0.002%	0.003%	0.003%	0.004%	0.005%	0.006%	0.080%
Communication interface		Built-in USB/F	Built-in USB/RS-232/RS-485/CAN interface, optional LAN interface; Supports Modbus-RTU and SCPI industry standard communication protocols.								

FRONT PANEL MONITORING AND CONTROL					
Operation mode		Programmer knob,digital key and multi-function key			
Display		5 digits OLED screen displays output voltage, current, power, working status and other information; Support Chinese and English menu switching display.			
Voltage display accuracy		0.05% of rated output voltage±1count.			
Current display accuracy		0.2% of rated output current±1count; (Models within 10A: 0.1% of rated output current±1count; Models within 3A: 0.5% of rated output current±1count)			
Voltage setting accuracy		0.05% of rated output voltage			
Current setting accuracy		0.2% of rated output current (Models within 10A: 0.1% of rated output current; Models within 3A: 0.5% of rated output current)			
Setpoint resolution		5 digits OLED; display format: 99999, current value decreases by one digit, decimal point automatically increases by one digit, maximum resolution:1mV; 1mA			
Display value resolution		5 digits OLED; display format: 99999, current value decreases by one digit, decimal point automatically increases by one digit, maximum resolution: 1mV; 1mA (0.1mA@Models within 3A)			

ENVIRONMENT APPLICABILITY					
Operating temperature	°C	Civil grade (0° C ~ +50°C); G: Industrial grade (-25°C ~ +55°C)			
Storage temperature	°C	S: Civil grade $(-20^{\circ}\text{C} \sim +70^{\circ}\text{C})$; G: Industrial grade $(-30^{\circ}\text{C} \sim +85^{\circ}\text{C})$			
Operating humidity	%	20~90% RH (no condensation).			
Storage humidity	%	10~95% RH (no condensation).			
Cooling		Forced air cooling by internal fans. Air flow direction: from Front panel to power supply rear			

MECHANICAL					
Dimensions (WxHxD)	mm	W: 420, H: 43.5, D: 443 (Without busbars and busbars cover),			
Weight	Kg	About 7.5Kg			

NOTES:

- *1: Minimum voltage is guaranteed to maximum 0.1% of rated output voltage.
- *2: Minimum current is guaranteed to maximum 0.2% of rated output current.
- *3: Constant load.
- *4: From No-Load to Full-Load, constant input voltage. Measured at the sensing point in Remote Sense.
- *5: The maximum voltage on the power supply terminals must not exceed the maximum voltage.
- *6: From 10% to 90% or 90% to 10% of Rated Output Voltage, with rated, resistive load.
- *7: From 90% to 10% of Rated Output Voltage.
- *8: Derate 5A/1°C when ambient temperature above 40°C



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