

DP series high-precision programmable DC power supply

1U-5KW high power density



➤ High-precision

➤ Superior quality

➤ High power density

DP series high-precision programmable DC power supply



Product introduction

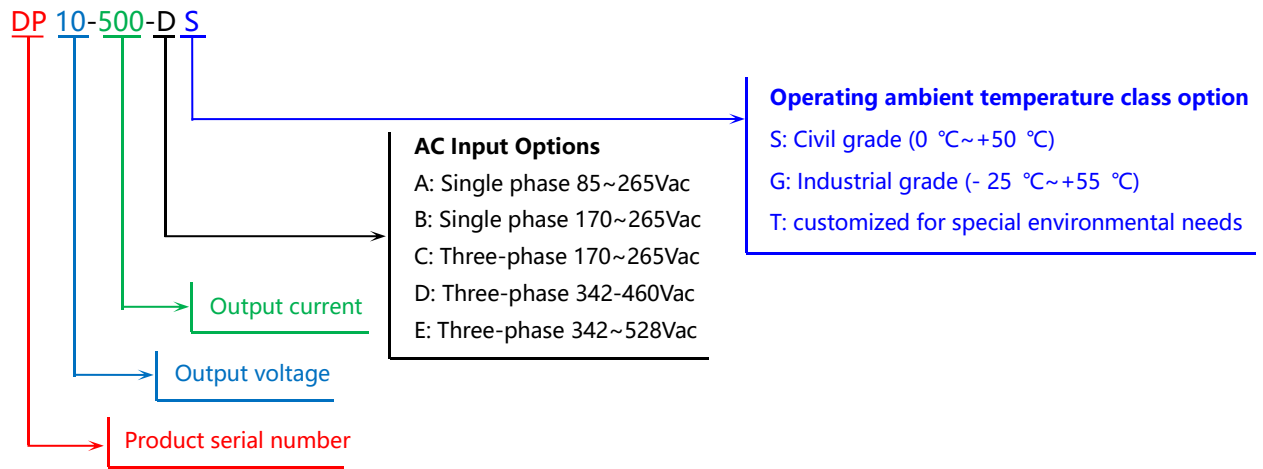
DP series high-precision programmable DC power supply is a cost-effective product with high-quality, high-power-density, multi-function, launched by our company to meet the needs of our customers. The maximum power of 1U model can reach 5KW, and the weight is only 7.5Kg. The specification voltage of 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



Quick selection table

1000W series

DP10-100===10V/100A/1000W	DP150-7====150V/7A/1050W	DP1200-0.5==1200V/0.5A/600W
DP20-50====20V/50A/1000W	DP200-5====200V/5A/1000W	DP1500-0.5==1500V/0.5A/750W
DP30-35====30V/35A/1050W	DP300-3.5===300V/3.5A/1050W	DP1500-0.7==1500V/0.7A/1050W
DP40-25====40V/25A/1000W	DP400-2.5===400V/2.5A/1000W	DP2000-0.3==2000V/0.3A/600W
DP50-20====50V/20A/1000W	DP500-2====500V/2A/1000W	DP2000-0.5==2000V/0.5A/1000W
DP60-17====60V/17A/1020W	DP600-1.7===600V/1.7A/1020W	DP2500-0.4==2500V/0.4A/1000W
DP80-13====80V/13A/1040W	DP1000-0.6==1000V/0.6A/600W	DP3000-0.2==3000V/0.2A/600W
DP100-10===100V/10A/1000W	DP1000-1===1000V/1A/1000W	DP3000-0.3==3000V/0.3A/900W

1700W series

DP10-170===10V/170A/1700W	DP100-17===100V/17A/1700W	DP1000-1.7==1000V/1.7A/1700W
DP20-85====20V/85A/1700W	DP150-11.2==150V/11.2A/1680W	DP1200-1====1200V/1A/1200W
DP30-56====30V/56A/1680W	DP200-8.5===200V/8.5A/1700W	DP1200-1.4==1200V/1.4A/1680W
DP40-42====40V/42A/1680W	DP300-5.6===300V/5.6A/1680W	DP1500-1.1===1500V/1.1A/1650W
DP50-34====50V/34A/1700W	DP400-4.2===400V/4.2A/1680W	DP2000-0.85=2000V/0.85A/1700W
DP60-28====60V/28A/1680W	DP500-3.4===500V/3.4A/1700W	DP2500-0.68=2500V/0.68A/1700W
DP80-21====80V/21A/1680W	DP600-2.8===600V/2.8A/1680W	DP3000-0.55=3000V/0.55A/1650W

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/2700W
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/3400W
DP20-170===20V/170A/3400W	DP150-23===150V/23A/3450W	DP1200-2.8===1200V/2.8A/3360W
DP30-112===30V/112A/3360W	DP200-17===200V/17A/3400W	DP1500-2.3===1500V/2.3A/3450W
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/3375W
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/5040W
DP30-170===30V/170A/5100W	DP200-25===200V/25A/5000W	DP1500-3.4===1500V/1.7A/5100W
DP40-125===40V/125A/5000W	DP300-17===300V/17A/5000W	DP2000-2.5===2000V/2.5A/5000W
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/5100W
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)

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
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
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
Rated power (OPP=110% of rated value)	W	1000	1000	1050	1000	1000	1020	1040	1000	1050	1000	1050	1000

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
Input voltage/frequency	--	A: Single phase 85~265Vac											
Power Factor (Typ)	--	0.99@100Vac 0.98@200Vac, rated output power.											
Efficiency at 100Vac/200Vac, rated output	%	85/87	86/88	86/88	86/88	86/88	86/88	86/88	87/89	87/89	87/89	87/89	87/89

CONSTANT VOLTAGE MODE		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
Max. Line regulation (*3)	--	0.01% of rated output voltage											
Max. Load regulation (*4)	--	0.01% of rated output voltage+5mV											
Ripple and noise (p-p, 20MHz)	mV	75	80	80	80	80	100	100	120	120	150	150	250
Ripple r.m.s. 5Hz~1MHz	mV	10	12	12	12	12	20	20	20	20	30	30	50
Temperature coefficient	--	50PPM/°C from rated output voltage, following 30 minutes warm-up.											
Temperature stability	--	0.01% of rated Vout over 8hrs interval following 30 minutes warm-up. Constant line, load & temp.											
Warm-up drift	--	Less than 0.01% of rated output voltage+2mV over 30 minutes following power on.											
Sense compensation (*5)	V	2	2	5	5	5	5	5	5	5	5	5	5
Rise response time (*6)	mS	20	20	20	20	20	20	20	25	50	50	100	100
Fall response time (*7)	Full load	mS	30	30	60	60	60	60	60	120	120	220	220
	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	≤	6S (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	300-3.5	400-2.5
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
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.											
Temperature stability	--	0.01% of rated Iout 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.	
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, overload protection, over-temperature protection, short circuit protection, input undervoltage protection, overvoltage protection	

DIGITAL PROGRAM CONTROL		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 rated output voltage											
Iout programming accuracy	--	Models within 10A: 0.2% of rated output current; Models above 10A: 0.1% of rated output current											
Vout programming resolution	--	0.002% of rated output voltage											
Iout programming resolution	--	0.002% of rated output current											
Vout readback accuracy	--	0.05% of rated output voltage											
Iout readback accuracy	--	Models within 10A: 0.2% of rated output current; Models above 10A: 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%	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 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	--	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 APPLICABILITY		
Operating temperature	°C	S: 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 100W series technical indicators (500V-3000V)

OUTPUT RATING		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
Voltage adjustable range (*1)	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
Current adjustable range (*2)	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
Rated power (OPP=110% of rated value)	W	1000	1020	600	1000	600	750	1050	600	1000	1000	600	900

INPUT CHARACTERISTICS		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
Input voltage/frequency	--	A: Single phase 85~265Vac											
Power Factor (Typ)	--	0.99@100Vac 0.98@200Vac, rated output power.											
Efficiency at 100Vac/200Vac, rated output	%	87/89	87/89	87/89	87/89	87/89	88/90	87/89	88/90	87/89	88/90	87/89	88/90

CONSTANT VOLTAGE MODE		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)	--	0.01% of rated output voltage											
Max. Load regulation (*4)	--	0.01% of rated output voltage+5mV											
Ripple and noise (p-p, 20MHz)	mV	450	500	650	650	700	1000	1000	1500	1500	2000	2500	2500
Ripple r.m.s. 5Hz~1MHz	mV	90	100	150	150	170	200	200	300	300	450	600	600
Temperature coefficient	--	50PPM/°C from rated output voltage, following 30 minutes warm-up.											
Temperature stability	--	0.01% of rated Vout over 8hrs interval following 30 minutes warm-up. Constant line, load & temp.											
Warm-up drift	--	Less than 0.01% of rated output voltage+2mV over 30 minutes following power on.											
Sense compensation (*5)	V	5	5	5	--	--	--	--	--	--	--	--	--
Rise response time (*6)	mS	100	100	100	100	150	150	150	150	150	200	200	250
Fall response time (*7)	Full load	mS	200	200	200	220	220	220	250	250	250	280	280
	No load	mS	5000	5500	6000	6000	6500	7000	7000	8000	8000	9000	10000
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	≤	6S (Turn on the power switch, the time when the power starts and enters standby mode)											

CONSTANT CURRENT MODE		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 rated output current. +2mA											
Max. Load regulation	--	0.02% of rated output current. +5mA											
Ripple r.m.s. 5Hz~1MHz	mA	≤10	≤10	≤10	≤5	≤5	≤5	≤5	≤5	≤5	≤5	≤5	≤5
Temperature coefficient	--	70PPM/°C from rated output current, following 30 minutes warm-up.											
Temperature stability	--	0.01% of rated Iout over 8hrs. interval following 30 minutes warm-up. Constant line, load & temperature.											
Warm-up drift	--	Less than ±0.15% of rated 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.											
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, 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 rated output voltage											
Iout programming accuracy	--	0.5% of rated output current											
Vout programming resolution	--	0.002% of rated output voltage											
Iout programming resolution	--	0.002% of rated output current											
Vout readback accuracy	--	0.05% of rated output voltage											
Iout readback accuracy	--	0.5% of rated output current											
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 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 ± 1 count.											
Current display accuracy	--	0.5% of rated output current ± 1 count.											
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 APPLICABILITY													
Operating temperature	°C	S: 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 1700W series technical indicators (10V-200V)

OUTPUT RATING		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 (OPP=110% of rated value)	W	1700	1700	1680	1680	1700	1680	1680	1700	1680	1700

INPUT CHARACTERISTICS		10-170	20-85	30-56	40-42	50-34	60-28	80-21	100-17	150-11.2	200-8.5
Input voltage/frequency	--	A: Single phase 85~265Vac									
Power Factor (Typ)	--	0.99@100Vac 0.98@200Vac, rated output power.									
Efficiency at 100Vac/200Vac, rated output	%	86/88	87/89	87/89	87/89	87/89	87/89	87/89	88/90	88/90	88/90

CONSTANT VOLTAGE 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 (*3)	--	0.01% of rated output voltage									
Max. Load regulation (*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 coefficient	--	50PPM/°C from rated output voltage, following 30 minutes warm-up.									
Temperature stability	--	0.01% of rated Vout over 8hrs interval following 30 minutes warm-up. Constant line, load & temp.									
Warm-up drift	--	Less than 0.01% of rated output voltage+2mV over 30 minutes following power on.									
Sense compensation (*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 time (*7)	Full load	mS	30	30	60	60	60	60	60	120	120
	No load	mS	600	1000	1500	2000	2500	2700	3000	3600	4500
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	≤	6S (Turn on the power switch, the time when the power starts and 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 (*3)	--	0.08% of rated output current.									
Max. Load regulation	--	0.08% of rated output current.									
Ripple r.m.s. 5Hz~1MHz	mA	≤350	≤160	≤80	≤60	≤55	≤50	≤30	≤20	≤10	≤10
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.									
Temperature stability	--	0.01% of rated Iout 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.
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, overload protection, over-temperature protection, short circuit protection, input undervoltage protection, overvoltage protection

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 output voltage									
Iout programming accuracy	--	Models within 10A: 0.2% of rated output current; Models above 10A: 0.1% of rated output current									
Vout programming resolution	--	0.002% of rated output voltage									
Iout programming resolution	--	0.002% of rated output current									
Vout readback accuracy	--	0.05% of rated output voltage									
Iout readback accuracy	--	Models within 10A: 0.2% of rated output current; Models above 10A: 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.	0.007%	0.002%	0.003%	0.003%	0.004%	0.004%	0.006%	0.007%	0.010%	0.015%
Communication interface	--	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 ± 1 count.
Current display accuracy	--	0.2% of rated output current ± 1 count.
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 APPLICABILITY		
Operating temperature	°C	S: 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 1700W series technical indicators (300V-3000V)

OUTPUT RATING		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 rated value)	W	1680	1680	1700	1680	1700	1200	1680	1650	1700	1700	1650

INPUT CHARACTERISTICS		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/frequency	--	A: Single phase 85~265Vac										
Power Factor (Typ)	--	0.99@100Vac 0.98@200Vac, rated output power.										
Efficiency at 100Vac/200Vac, rated output	%	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		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)	--	0.01% of rated output voltage										
Max. Load regulation (*4)	--	0.01% of rated output voltage+5mV										
Ripple and noise (p-p, 20MHz)	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 coefficient	--	50PPM/°C from rated output voltage, following 30 minutes warm-up.										
Temperature stability	--	0.01% of rated Vout over 8hrs interval following 30 minutes warm-up. Constant line, load & temp.										
Warm-up drift	--	Less than 0.01% of rated output voltage+2mV over 30 minutes following power on.										
Sense compensation (*5)	V	5	5	5	5	--	--	--	--	--	--	--
Rise response time (*6)	mS	100	100	100	100	100	150	150	150	150	200	250
Fall response time (*7)	Full load	mS	220	220	200	200	200	220	220	220	250	280
	No load	mS	4600	4600	5000	5500	6000	6500	6500	7000	8000	10000
Transient response time	mS	≤ 2 mS (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	\leq	6S (Turn on the power switch, the time when the power starts and enters standby mode)										

CONSTANT CURRENT MODE		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 rated output current. +2mA										
Max. Load regulation	--	0.02% 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 from rated output current, following 30 minutes warm-up.										
Temperature stability	--	0.01% of rated Iout over 8hrs. interval following 30 minutes warm-up. Constant line, load & temperature.										
Warm-up drift	--	Less than ±0.15% of rated 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.										
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, overload protection, over-temperature protection, short circuit protection, input undervoltage protection, overvoltage protection										

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 rated output voltage										
Iout programming accuracy	--	0.2% of rated output current; (Models within 3A: 0.5% of rated output current)										
Vout programming resolution	--	0.002% of rated output voltage										
Iout programming resolution	--	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 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%	0.010%	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-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 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 APPLICABILITY												
Operating temperature	°C	S: 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)

OUTPUT RATING		10-270	20-135	30-90	40-68	50-55	60-45	80-34	100-27	150-18	200-14
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	0~285	0~142	0~95	0~72	0~58	0~47	0~36	0~27	0~19	0~15
Rated power (OPP=110% of rated value)	W	2700	2700	2700	2720	2750	2700	2720	2700	2700	2800

INPUT CHARACTERISTICS		10-270	20-135	30-90	40-68	50-55	60-45	80-34	100-27	150-18	200-14
Input voltage/frequency	--	B: Single phase 170~265Vac									
Power Factor (Typ)	--	0.98@200Vac, rated output power.									
.Efficiency at 200Vac, rated output	%	88	89	89	89	89	89	89	90	90	90

CONSTANT VOLTAGE 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)	--	0.01% of rated output voltage										
Max. Load regulation (*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 coefficient	--	50PPM/°C from rated output voltage, following 30 minutes warm-up.										
Temperature stability	--	0.01% of rated Vout over 8hrs interval following 30 minutes warm-up. Constant line, load & temp.										
Warm-up drift	--	Less than 0.01% of rated output voltage+2mV over 30 minutes following power on.										
Sense compensation (*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 time (*7)	Full load	mS	30	30	60	60	60	60	60	60	120	120
	No load	mS	600	1000	1500	2000	2500	2700	3000	3600	3900	4500
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	≤	6S (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. Line regulation (*3)	--	0.05% of rated output current.									
Max. Load regulation	--	0.08% of rated output current.									
Ripple r.m.s. 5Hz~1MHz	mA	≤350	≤160	≤80	≤60	≤55	≤50	≤30	≤20	≤10	≤10
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.									
Temperature stability	--	0.01% of rated Iout 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.
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, overload protection, over-temperature protection, short circuit protection, input undervoltage protection, overvoltage protection

DIGITAL PROGRAM CONTROL		10-270	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 output voltage									
Iout programming accuracy	--	0.1% of rated output current									
Vout programming resolution	--	0.002% of rated output voltage									
Iout programming resolution	--	0.002% of rated output current									
Vout readback accuracy	--	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/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±1 count.
Current display accuracy	--	0.1% of rated output current±1 count.
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	S: 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)

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	0~315	0~420	0~525	0~630	0~1050	0~1260	0~1575	0~2100	0~2550	0~3050
Current adjustable range (*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 rated value)	W	2700	2800	2750	2750	2700	2400	2700	2800	2500	2700

INPUT CHARACTERISTICS		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/frequency	--	B: Single phase 170~265Vac									
Power Factor (Typ)	--	0.98@200Vac, rated output power.									
.Efficiency at 200Vac, rated output	%	90	90	90	91	92	92	92	92	92	92

CONSTANT VOLTAGE 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)	--	0.01% of rated output voltage									
Max. Load regulation (*4)	--	0.01% of rated output voltage+5mV									
Ripple and noise (p-p, 20MHz)	mV	150	250	450	500	660	700	1000	1500	2000	2500
Ripple r.m.s. 5Hz~1MHz	mV	30	50	90	100	150	170	200	300	450	600
Temperature coefficient	--	50PPM/°C from rated output voltage, following 30 minutes warm-up.									
Temperature stability	--	0.01% of rated Vout over 8hrs interval following 30 minutes warm-up. Constant line, load & temp.									
Warm-up drift	--	Less than 0.01% of rated output voltage+2mV over 30 minutes following power on.									
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 time (*7)	Full load	mS	220	220	200	200	200	220	220	250	280
	No load	mS	4600	4600	5000	5500	6000	6500	7000	8000	10000
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	≤	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 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	≤10	≤10	≤10	≤10	≤5	≤5	≤5	≤5	≤5	≤5
Temperature coefficient	--	70PPM/°C from rated output current, following 30 minutes warm-up.									
Temperature stability	--	0.01% of rated Iout over 8hrs. interval following 30 minutes warm-up. Constant line, load & temperature.									
Warm-up drift	--	Less than ±0.15% of rated 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.									
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, 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 output voltage									
Iout programming accuracy	--	0.2% of rated output current; (Models within 3A: 0.5% of rated output current)									
Vout programming resolution	--	0.002% of rated output voltage									
Iout programming resolution	--	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 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.	0.002%	0.002%	0.003%	0.003%	0.005%	0.005%	0.010%	0.010%	0.011%	0.015%
Communication interface	--	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 ± 1 count.									
Current display accuracy	--	0.2% of rated output current ± 1 count; (Models within 3A: 0.5% of rated output current ± 1 count)									
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 APPLICABILITY											
Operating temperature	°C	S: 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 3400W series technical indicators (10V-200V)

OUTPUT RATING		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 rated 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
Input voltage/frequency	--	B: Single phase 170~265Vac									
	--	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									
Power Factor (Typ)	--	For single-phase input models: 0.99@200Vac, rated output power.									
	--	For three-phase input models: 0.94@200/380Vac, rated output power.									
Efficiency at 200Vac/380Vac, rated output	%	87	88	88	89	89	89	90	90	90	90

CONSTANT VOLTAGE MODE		10-340	20-170	30-112	40-85	50-68	60-56	80-42	100-34	150-23	200-17
Max. Line regulation (*3)	--	0.01% of rated output voltage									
Max. Load regulation (*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 coefficient	--	50PPM/°C from rated output voltage, following 30 minutes warm-up.									
Temperature stability	--	0.01% of rated Vout over 8hrs interval following 30 minutes warm-up. Constant line, load & temp.									
Warm-up drift	--	Less than 0.01% of rated output voltage+2mV over 30 minutes following power on.									
Sense compensation (*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 time (*7)	Full load	mS	50	50	80	80	80	80	100	100	100
	No load	mS	600	1000	1500	2000	2500	2700	3000	3000	4000
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	≤	6S (Turn on the power switch, the time when the power starts and enters standby mode)									

CONSTANT CURRENT MODE		10-340	20-170	30-112	40-85	50-68	60-56	80-42	100-34	150-23	200-17
Max. Line regulation (*3)	--	0.05% of rated output current.									
Max. Load regulation	--	0.08% of rated output current.									
Ripple r.m.s. @ rated voltage. 3-Phase	mA	≤1200	≤600	≤300	≤300	≤250	≤200	≤100	≤60	≤40	≤30
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.									
Temperature stability	--	0.01% of rated Iout 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.
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, overload protection, over-temperature protection, short circuit protection, input undervoltage protection, overvoltage protection

DIGITAL PROGRAM CONTROL		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 output voltage									
Iout programming accuracy	--	0.1% of rated output current									
Vout programming resolution	--	0.002% of rated output voltage									
Iout programming resolution	--	0.002% of rated output current									
Vout readback accuracy	--	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.	0.004%	0.007%	0.010%	0.002%	0.002%	0.003%	0.004%	0.004%	0.005%	0.007%
Communication interface	--	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 ± 1 count.
Current display accuracy	--	0.1% of rated output current ± 1 count.
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	S: 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 3400W series technical indicators (300V-3000V)

OUTPUT RATING		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
Voltage adjustable range (*1)	V	0 ~ 315	0 ~ 420	0 ~ 525	0 ~ 630	0 ~ 1050	0 ~ 1260	0 ~ 1575	0 ~ 2100	0 ~ 2550	0 ~ 3050
Current adjustable range (*2)	A	0 ~ 12	0 ~ 9	0 ~ 7.5	0 ~ 6	0 ~ 3.6	0 ~ 3	0 ~ 2.5	0 ~ 1.8	0 ~ 1.45	0 ~ 1.2
Rated power (OPP=110% of rated value)	W	3450	3400	3400	3360	3400	3360	3450	3400	3375	3300
INPUT CHARACTERISTICS		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
Input voltage/frequency	--	B: Single phase 170~265Vac									
	--	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									
Power Factor (Typ)	--	For single-phase input models: 0.99@200Vac, rated output power.									
	--	For three-phase input models: 0.94@200/380Vac, rated output power.									
Efficiency at 200Vac/380Vac, rated output	%	90	90	90	91	92	92	92	92	92	92
CONSTANT VOLTAGE 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)	--	0.01% of rated output voltage									
Max. Load regulation (*4)	--	0.01% of rated output voltage+5mV									
Ripple and noise (p-p, 20MHz)	mV	150	250	450	500	660	700	1000	1500	2000	2500
Ripple r.m.s. 5Hz~1MHz	mV	30	50	90	100	150	170	200	300	450	600
Temperature coefficient	--	50PPM/°C from rated output voltage, following 30 minutes warm-up.									
Temperature stability	--	0.01% of rated Vout over 8hrs interval following 30 minutes warm-up. Constant line, load & temp.									
Warm-up drift	--	Less than 0.01% of rated output voltage+2mV over 30 minutes following power on.									
Sense compensation (*5)	V	5	5	5	5	--	--	--	--	--	--
Rise response time (*6)	mS	50	100	100	100	100	150	150	150	200	250
Fall response time (*7)	Full load	mS	100	200	200	200	220	220	250	250	280
	No load	mS	4000	4000	4500	5000	6000	6500	7000	8000	9000
Transient response time	mS	≤ 2 mS (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	\leq	6S (Turn on the power switch, the time when the power starts and enters standby mode)									

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 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	≤20	≤10	≤10	≤10	≤8	≤5	≤5	≤5	≤5	≤5
Temperature coefficient	--	70PPM/oC from rated output current, following 30 minutes warm-up.									
Temperature stability	--	0.01% of rated Iout over 8hrs. interval following 30 minutes warm-up. Constant line, load & temperature.									
Warm-up drift	--	Less than ±0.15% of rated 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.									
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, 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 output voltage									
Iout programming accuracy	--	0.2% of rated output current; (Models within 3A: 0.5% of rated output current)									
Vout programming resolution	--	0.002% of rated output voltage									
Iout programming resolution	--	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 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.	0.010%	0.002%	0.002%	0.003%	0.004%	0.004%	0.005%	0.008%	0.010%	0.010%
Communication interface	--	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 ± 1 count.									
Current display accuracy	--	0.2% of rated output current ± 1 count. ; (Models within 3A: 0.5% of rated output current ± 1 count.)									
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 APPLICABILITY											
Operating temperature	°C	S: 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 5000W series technical indicators (10V-200V)

OUTPUT RATING		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 (OPP=110% of rated value)	W	5000	5000	5100	5000	5000	5100	5200	5000	5100	5000

INPUT CHARACTERISTICS		10-500	20-250	30-170	40-125	50-100	60-85	80-65	100-50	150-34	200-25
Input voltage/frequency	--	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									
Power Factor (Typ)	--	0.94@200/380Vac, rated output power.									
Efficiency at 200Vac/380Vac, rated output	%	88	90	90	90	91	91	91	91	91	91

CONSTANT VOLTAGE MODE		10-500	20-250	30-170	40-125	50-100	60-85	80-65	100-50	150-34	200-25
Max. Line regulation (*3)	--	0.01% of rated output voltage									
Max. Load regulation (*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 coefficient	--	50PPM/°C from rated output voltage, following 30 minutes warm-up.									
Temperature stability	--	0.01% of rated Vout over 8hrs interval following 30 minutes warm-up. Constant line, load & temp.									
Warm-up drift	--	Less than 0.01% of rated output voltage+2mV over 30 minutes following power on.									
Sense compensation (*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 time (*7)	Full load	mS	50	50	80	80	80	80	100	100	100
	No load	mS	600	900	1500	1500	2000	2000	2500	2500	3000
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	≤	6S (Turn on the power switch, the time when the power starts and enters standby mode)									

CONSTANT CURRENT MODE		10-500	20-250	30-170	40-125	50-100	60-85	80-65	100-50	150-34	200-25
Max. Line regulation (*3)	--	0.05% of rated output current.									
Max. Load regulation	--	0.08% of rated output current.									
Ripple r.m.s. 5Hz~1MHz	mA	≤1200	≤600	≤300	≤150	≤120	≤100	≤70	≤45	≤45	≤45
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.									
Temperature stability	--	0.01% of rated Iout 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.
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, overload protection, over-temperature protection, short circuit protection, input undervoltage protection, overvoltage 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 output voltage									
Iout programming accuracy	--	0.1% of rated output current									
Vout programming resolution	--	0.002% of rated output voltage									
Iout programming resolution	--	0.002% of rated output current									
Vout readback accuracy	--	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.	0.003%	0.005%	0.006%	0.009%	0.011%	0.002%	0.002%	0.003%	0.004%	0.004%
Communication interface	--	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 ± 1 count.
Current display accuracy	--	0.1% of rated output current ± 1 count.
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 APPLICABILITY		
Operating temperature	°C	S: 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 7.5Kg

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

OUTPUT RATING		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
Voltage adjustable range (*1)	V	0 ~ 315	0 ~ 420	0 ~ 525	0 ~ 630	0 ~ 1050	0 ~ 1260	0 ~ 1575	0 ~ 2100	0 ~ 2550	0 ~ 3050
Current adjustable range (*2)	A	0 ~ 18	0 ~ 14	0 ~ 11	0 ~ 9	0 ~ 5.3	0 ~ 4.5	0 ~ 3.6	0 ~ 2.7	0 ~ 2.1	0 ~ 1.8
Rated power (OPP=110% of rated value)	W	5100	5200	5000	5100	5000	5040	5100	5000	5000	5100

INPUT CHARACTERISTICS		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
Input voltage/frequency	--	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									
Power Factor (Typ)	--	0.94@200/380Vac, rated output power.									
Efficiency at 200Vac/380Vac, rated output	%	92	92	92	92	93	93	93	93	93	93

CONSTANT VOLTAGE 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)	--	0.01% of rated output voltage									
Max. Load regulation (*4)	--	0.01% of rated output voltage+5mV									
Ripple and noise (p-p, 20MHz)	mV	150	250	450	500	660	700	1000	1500	2000	2500
Ripple r.m.s. 5Hz~1MHz	mV	30	50	90	100	150	170	200	300	450	600
Temperature coefficient	--	50PPM/°C from rated output voltage, following 30 minutes warm-up.									
Temperature stability	--	0.01% of rated Vout over 8hrs interval following 30 minutes warm-up. Constant line, load & temp.									
Warm-up drift	--	Less than 0.01% of rated output voltage+2mV over 30 minutes following power on.									
Sense compensation (*5)	V	5	5	5	5	--	--	--	--	--	--
Rise response time (*6)	mS	50	100	100	100	100	150	150	150	200	250
Fall response time (*7)	Full load	mS	100	200	200	200	200	220	220	250	280
	No load	mS	4000	4000	4500	5000	6000	6500	7000	8000	10000
Transient response time	mS	$\leq 2mS$ (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	\leq	6S (Turn on the power switch, the time when the power starts and enters standby mode)									

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 rated output current; Models within 8A: 0.02% of rated 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 Iout 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	--	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 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, 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 output voltage									
Iout programming 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 programming resolution	--	0.002% of rated output voltage									
Iout programming resolution	--	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/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 ± 1 count.									
Current display accuracy	--	0.2% of rated output current ± 1 count; (Models within 10A: 0.1% of rated output current ± 1 count; Models within 3A: 0.5% of rated output current ± 1 count)									
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	S: 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 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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ASSTPOWER



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