JINGRI TECH 精日科技

DPS series high-precision programmable DC power supply

10kW/15kW/20KW/25KW/30KW/35KW/40KW in 2U/3U/4U/5U/6U/7U/8U Height

- High-precision
- Superior quality
- High power density

DPS series

WWW.CN-POWER.CN

DPS series high-precision programmable DC power supply

Product introduction

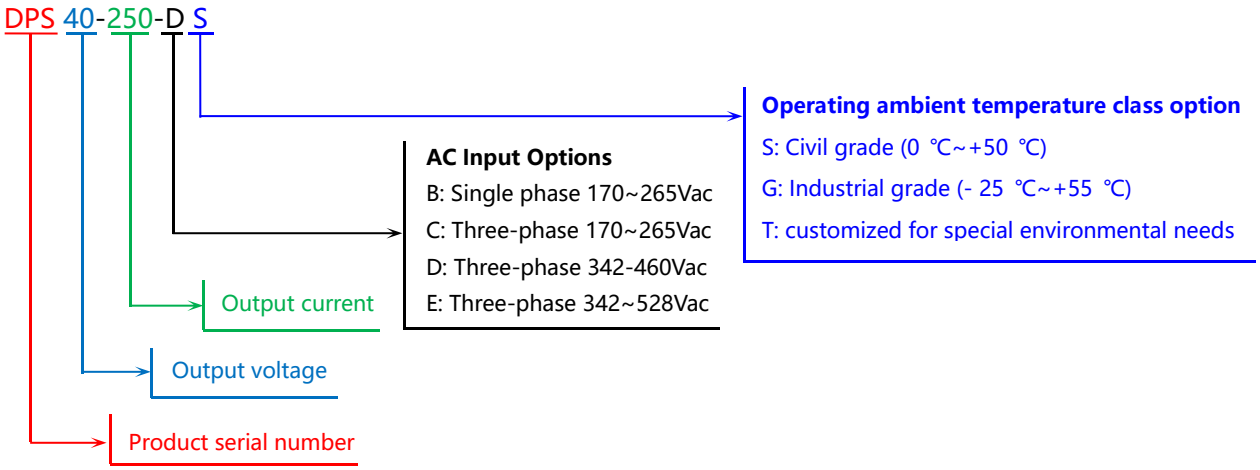
DPS series high-precision programmable DC power supply is a cost-effective product with high-quality, high-power-density, multi-function, launched by our company to meet the needs of our customers. It operates in the mode of multi-module combined master-slave parallel connection. Disconnecting the parallel signal line of the faulty module will not affect the normal operation of the whole machine, when any slave module fails. 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 (0.94 typical)	LIST programming dynamic output
Output Voltage up to3050V, Current up to 10KA	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

2U-6800W series

DPS10-680===10V/680A	DPS100-68===100V/68A	DPS1000-6.8===1000V/6.8A
DPS20-340===20V/340A	DPS150-46===150V/46A	DPS1200-5.6===1200V/5.6A
DPS30-225===30V/225A	DPS200-34===200V/34A	DPS1500-4.6===1500V/4.6A
DPS40-170===40V/170A	DPS300-23===300V/23A	DPS2000-3.4===2000V/3.4A
DPS50-136===50V/136A	DPS400-17===400V/17A	DPS2500-2.7===2500V/2.7A
DPS60-113===60V/113A	DPS500-13.6==500V/13.6A	DPS3000-2.2===3000V/2.2A
DPS80-85====80V/85A	DPS600-11.5==600V/11.5A	

2U-10KW series

DPS10-1000==10V/1000A	DPS100-100==100V/100A	DPS1000-10==1000V/10A
DPS20-500===20V/500A	DPS150-68===150V/68A	DPS1200-8.5==1200V/8.5A
DPS30-340===30V/340A	DPS200-50===200V/50A	DPS1500-6.8==1500V/6.8A
DPS40-250===40V/250A	DPS300-34===300V/34A	DPS2000-5===2000V/5A
DPS50-200===50V/200A	DPS400-25===400V/25A	DPS2500-4===2500V/4A
DPS60-170===60V/170A	DPS500-20===500V/20A	DPS3000-3.4==3000V/3.4A
DPS80-130===80V/130A	DPS600-17===600V/17A	

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

3U-15KW series

DPS10-1500==10V/1500A	DPS100-150==100V/150A	DPS1000-15==1000V/15A
DPS20-750===20V/750A	DPS150-102==150V/102A	DPS1200-13==1200V/13A
DPS30-510===30V/510A	DPS200-75===200V/75A	DPS1500-10==1500V/10A
DPS40-375===40V/375A	DPS300-51===300V/51A	DPS2000-7.5==2000V/7.5A
DPS50-300===50V/300A	DPS400-38===400V/38A	DPS2500-6===2500V/6A
DPS60-255===60V/255A	DPS500-30===500V/30A	DPS3000-5===3000V/5A
DPS80-195===80V/195A	DPS600-25.5==600V/25.5A	

4U-20KW series

DPS10-2000==10V/2000A	DPS100-200==100V/200A	DPS1000-20===1000V/20A
DPS20-1000===20V/1000A	DPS150-136==150V/136A	DPS1200-17===1200V/17A
DPS30-680===30V/680A	DPS200-100==200V/100A	DPS1500-13.6==1500V/13.6A
DPS40-500===40V/500A	DPS300-68===300V/68A	DPS2000-10===2000V/10A
DPS50-400===50V/400A	DPS400-50===400V/50A	DPS2500-8====2500V/8A
DPS60-340===60V/340A	DPS500-40===500V/40A	DPS3000-6.8===3000V/6.8A
DPS80-260===80V/260A	DPS600-34===600V/34A	

5U-25KW series

DPS10-2500==10V/2500A	DPS100-250==100V/250A	DPS1000-25===1000V/25A
DPS20-1250==20V/1250A	DPS150-170===150V/170A	DPS1200-21===1200V/21A
DPS30-850===30V/850A	DPS200-125===200V/125A	DPS1500-17===1500V/17A
DPS40-625===40V/625A	DPS300-85===300V/85A	DPS2000-12.5==2000V/12.5A
DPS50-500===50V/500A	DPS400-63===400V/63A	DPS2500-10===2500V/10A
DPS60-425===60V/425A	DPS500-50===500V/50A	DPS3000-8.5===3000V/8.5A
DPS80-325===80V/325A	DPS600-42.5==600V/42.5A	

Note: 1、Please determine the model suffix letter according to the actual input voltage and temperature class requirements, when you place an order.

2. For other specifications, please contact us for consultation. The maximum power can reach 100KW.

Specifications

DPS 6800W series technical indicators (10V-200V)

OUTPUT RATING		10-680	20-340	30-225	40-170	50-136	60-113	80-85	100-68	150-46	200-34
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	0～714 (*8)	0～360	0～240	0～180	0～144	0～120	0～88	0～72	0～48	0～36
Rated power (OPP=105% of rated value)	W	6800	6800	6750	6800	6800	6780	6800	6800	6900	6800

INPUT CHARACTERISTICS		10-680	20-340	30-225	40-170	50-136	60-113	80-85	100-68	150-46	200-34
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)	--	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		10-680	20-340	30-225	40-170	50-136	60-113	80-85	100-68	150-46	200-34
Max. Line regulation (*3)	--	0.01% of rated output voltage									
Max. Line regulation (*4)	--	0.01% of rated output voltage+5mV									
Ripple and noise (p-p, 20MHz)	mV	80	80	80	90	90	100	100	120	120	200
Ripple r.m.s. 5Hz~1MHz	mV	12	12	12	18	18	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	100
Fall response time (*7) No load	mS	600	900	1500	1500	2000	2000	2500	2500	3000	3500
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		10-680	20-340	30-225	40-170	50-136	60-113	80-85	100-68	150-46	200-34
Max. Line regulation (*3)	--	0.05% of rated output current.									
Max. Line regulation	--	0.08% of rated output current.									
Ripple r.m.s. 5Hz~1MHz	mA	≤1000	≤500	≤300	≤150	≤120	≤100	≤70	≤45	≤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		10-680	20-340	30-225	40-170	50-136	60-113	80-85	100-68	150-46	200-34
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.	0.002%	0.003%	0.005%	0.007%	0.009%	0.010%	0.002%	0.002%	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±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	S：Civil grade（0℃～+50℃）; G：Industrial grade（-25℃～+55℃）
Storage temperature	°C	S：Civil grade（-20℃～+70℃）; G：Industrial grade（-30℃～+85℃）
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	W420, H88, D443 (Without busbars and busbars cover),
Weight	Kg	About 13.5Kg

DPS 6800W *series technical indicators* (300V-3000V)

OUTPUT RATING		300-23	400-17	500-13.6	600-11.2	1000-6.8	1200-5.6	1500-4.6	2000-3.4	2500-2.7	3000-2.2
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	0～24	0～19	0～15	0～12	0～7.2	0～4.5	0～5	0～3.6	0～2..9	0～2.4
Rated power (OPP=105% of rated value)	W	6900	6800	6800	6720	6800	6720	6900	6800	6750	6600

INPUT CHARACTERISTICS		300-23	400-17	500-13.6	600-11.2	1000-6.8	1200-5.6	1500-4.6	2000-3.4	2500-2.7	3000-2.2
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			300-23	400-17	500-13.6	600-11.2	1000-6.8	1200-5.6	1500-4.6	2000-3.4	2500-2.7	3000-2.2
Max. Line regulation（*3）		--	0.01% of rated output voltage									
Max. Line 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	250	280
	No load	mS	4600	4600	5000	5500	6000	6500	7000	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		300-23	400-17	500-13.6	600-11.2	1000-6.8	1200-5.6	1500-4.6	2000-3.4	2500-2.7	3000-2.2
Max. Line regulation (*3)	--	0.02% of rated output current. +2mA									
Max. Line regulation	--	0.02% of rated output current. +5mA									
Ripple r.m.s. 5Hz~1MHz	mA	≤25	≤20	≤15	≤15	≤10	≤10	≤10	≤10	≤10	≤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		300-23	400-17	500-13.6	600-11.2	1000-6.8	1200-5.6	1500-4.6	2000-3.4	2500-2.7	3000-2.2
Vout programming accuracy	--	0.05% of rated output voltage									
Iout programming accuracy	--	0.2% of rated output current；(Models within 10A：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：0.5% 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%	0.006%	0.004%	0.011%	0.002%	0.020%	0.003%	0.004%	0.005%	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		0.2% of rated output current±1count.；(Models within 10A：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：0.5% 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

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	W420, H88, D443 (Without busbars and busbars cover),
Weight	Kg	About 13.5Kg

DPS 10KW *series technical indicators* (10V-200V)

OUTPUT RATING		10-1000	20-500	30-340	40-250	50-200	60-170	80-130	100-100	150-68	200-50
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	0～1050 (*8)	0～525	0～360	0～263	0～210	0～180	0～136	0～105	0～72	0～54
Rated power (OPP=105% of rated value)	W	10000	10000	10200	10000	10000	10200	10400	10000	10200	10000

INPUT CHARACTERISTICS		10-1000	20-500	30-340	40-250	50-200	60-170	80-130	100-100	150-68	200-50
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	%	89	90	90	90	91	91	91	91	91	91

CONSTANT VOLTAGE MODE		10-1000	20-500	30-340	40-250	50-200	60-170	80-130	100-100	150-68	200-50
Max. Line regulation (*3)	--	0.01% of rated output voltage									
Max. Line 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	4	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	100
Fall response time (*7) No load	mS	600	1000	1500	2000	2500	2700	3000	3000	3500	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		10-1000	20-500	30-340	40-250	50-200	60-170	80-130	100-100	150-68	200-50
Max. Line regulation (*3)	--	0.05% of rated output current.									
Max. Line regulation	--	0.08% of rated output current.									
Ripple r.m.s. 5Hz~1MHz	mA	≤1200	≤700	≤350	≤250	≤150	≤150	≤100	≤80	≤50	≤35
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		10-1000	20-500	30-340	40-250	50-200	60-170	80-130	100-100	150-68	200-50
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.	0.012%	0.003%	0.004%	0.005%	0.006%	0.007%	0.009%	0.012%	0.002%	0.003%
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		0.1% 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	℃	S：Civil grade（0℃～+50℃）；G：Industrial grade（-25℃～+55℃）
Storage temperature	℃	S：Civil grade（-20℃～+70℃）；G：Industrial grade（-30℃～+85℃）
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	W420, H88, D443 (Without busbars and busbars cover),
Weight	Kg	About 15.5Kg

DPS 10KW *series technical indicators* (300V-3000V)

OUTPUT RATING		300-34	400-25	500-20	600-17	1000-10	1200-8.5	1500-6.8	2000-5	2500-4	3000-3.4
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	0～36	0～28	0～22	0～18	0～11	0～9	0～7.2	0～5.5	0～4.3	0～3.6
Rated power (OPP=105% of rated value)	W	10200	10400	10000	10200	10000	10200	10200	10000	10000	10200

INPUT CHARACTERISTICS		300-34	400-25	500-20	600-17	1000-10	1200-8.5	1500-6.8	2000-5	2500-4	3000-3.4
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		300-34	400-25	500-20	600-17	1000-10	1200-8.5	1500-6.8	2000-5	2500-4	3000-3.4
Max. Line regulation（*3）	--	0.01% of rated output voltage									
Max. Line 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	250	280
Fall response time（*7） No load	mS	4000	4000	4500	5000	6000	6500	7000	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		300-34	400-25	500-20	600-17	1000-10	1200-8.5	1500-6.8	2000-5	2500-4	3000-3.4
Max. Line regulation (*3)	--	0.05% of rated output current.									
Max. Line 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	≤30	≤25	≤20	≤15	≤10	≤10	≤10	≤10	≤10	≤10
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		300-34	400-25	500-20	600-17	1000-10	1200-8.5	1500-6.8	2000-5	2500-4	3000-3.4
Vout programming accuracy	--	0.05% of rated output voltage									
Iout programming accuracy	--	0.2% of rated output current；(Models within 10A：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：0.5% 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.	0.004%	0.005%	0.006%	0.008%	0.011%	0.015%	0.020%	0.022%	0.003%	0.030%
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 10A：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：0.5% 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: 0.001
Display value resolution	--	5 digits OLED; display format: 99999, current value decreases by one digit, decimal point automatically increases by one digit, maximum resolution: 0.001

ENVIRONMENT APPLICABILITY		
Operating temperature	℃	S：Civil grade (0℃～+50℃)；G：Industrial grade (-25℃～+55℃)
Storage temperature	℃	S：Civil grade (-20℃～+70℃)；G：Industrial grade (-30℃～+85℃)
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	W420, H88, D443 (Without busbars and busbars cover),
Weight	Kg	About 15.5Kg

DPS 15000W *series technical indicators* (10V-200V)

OUTPUT RATING		10-1500	20-750	30-510	40-375	50-300	60-255	80-195	100-150	150-102	200-75
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	0～1575 (*8)	0～789	0～540	0～396	0～315	0～270	0～204	0～162	0～108	0～81
Rated power (OPP=105% of rated value)	W	15000	15000	15300	15000	15000	15300	15600	15000	15300	15000

INPUT CHARACTERISTICS		10-1500	20-750	30-510	40-375	50-300	60-255	80-195	100-150	150-102	200-75
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		10-1500	20-750	30-510	40-375	50-300	60-255	80-195	100-150	150-102	200-75
Max. Line regulation (*3)	--	0.01% of rated output voltage									
Max. Line 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	4	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	100
Fall response time (*7) No load	mS	600	900	1500	1500	2000	2000	2500	2500	3000	3500
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		10-1500	20-750	30-510	40-375	50-300	60-255	80-195	100-150	150-102	200-75
Max. Line regulation (*3)	--	0.05% of rated output current.									
Max. Line regulation	--	0.08% of rated output current.									
Ripple r.m.s. 5Hz~1MHz	mA	≤1500	≤800	≤500	≤400	≤300	≤200	≤150	≤100	≤80	≤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		10-1500	20-750	30-510	40-375	50-300	60-255	80-195	100-150	150-102	200-75
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.	0.0012%	0.003%	0.003%	0.004%	0.004%	0.005%	0.006%	0.008%	0.012%	0.002%
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		0.1% 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: 0.001
Display value resolution	--	5 digits OLED; display format: 99999, current value decreases by one digit, decimal point automatically increases by one digit, maximum resolution: 0.001

ENVIRONMENT APPLICABILITY		
Operating temperature	℃	S：Civil grade（0℃～+50℃）；G：Industrial grade（-25℃～+55℃）
Storage temperature	℃	S：Civil grade（-20℃～+70℃）；G：Industrial grade（-30℃～+85℃）
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	W420, H132, D443 (Without busbars and busbars cover),
Weight	Kg	About 23Kg

DPS15000W *series technical indicators* (300V-3000V)

OUTPUT RATING		300-51	400-39	500-30	600-25	1000-15	1200-13	1500-10	2000-7.5	2500-6	3000-5
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	0～54	0～42	0～33	0～27	0～16	0～14	0～11	0～8	0～6.5	0～5.5
Rated power (OPP=105% of rated value)	W	15200	15600	15000	15000	15000	15600	15000	15000	15000	15000

INPUT CHARACTERISTICS		300-51	400-39	500-30	600-25.5	1000-15	1200-13	1500-10	2000-7.5	2500-6	3000-5
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		300-51	400-39	500-30	600-25	1000-15	1200-13	1500-10	2000-7.5	2500-6	3000-5
Max. Line regulation（*3）	--	0.01% of rated output voltage									
Max. Line 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	250	280
Fall response time（*7） No load	mS	4000	4000	4500	5000	6000	6500	7000	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		300-51	400-39	500-30	600-25	1000-15	1200-13	1500-10	2000-7.5	2500-6	3000-5
Max. Line regulation (*3)	--	0.05% of rated output current.									
Max. Line regulation	--	0.08% of rated output current.									
Ripple r.m.s. 5Hz~1MHz	mA	≤45	≤35	≤30	≤25	≤20	≤15	≤10	≤10	≤10	≤10
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		300-51	400-39	500-30	600-25	1000-15	1200-13	1500-10	2000-7.5	2500-6	3000-5
Vout programming accuracy	--	0.05% of rated output voltage									
Iout programming accuracy	--	0.2% of rated output current；(Models within 10A：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：0.5% 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.	0.003%	0.003%	0.004%	0.005%	0.008%	0.010%	0.011%	0.020%	0.002%	0.003%
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 10A：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：0.5% 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: 0.001
Display value resolution	--	5 digits OLED; display format: 99999, current value decreases by one digit, decimal point automatically increases by one digit, maximum resolution: 0.001

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	W420, H132, D443 (Without busbars and busbars cover),
Weight	Kg	About 23Kg

Please contact the sales staff for information, when you want to know more than 15KW technical data.

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

CREATED IN CHINA 中国创造 2025

MADE IN CHINA 中国制造 2025

ASTPOWER

Hangzhou Jingri Technology Co., Ltd.

Add. Floor 2, Building 4, Topsun Science Park, No. 351, Changhe Road, Binjiang District, Hangzhou, Zhejiang, China.

Tel. +86571-85198193 85198393 85198079

Fax extension: 807

E-mail: sales@cn-power.cn http://www.cn-power.cn