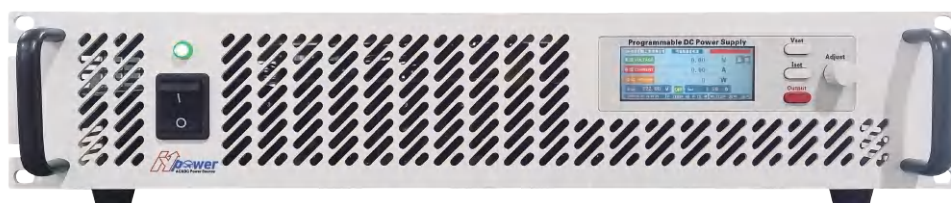
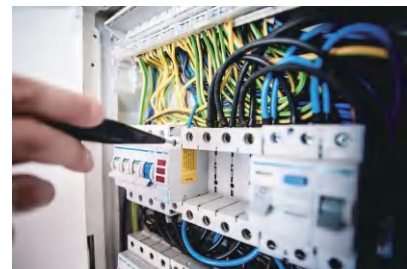
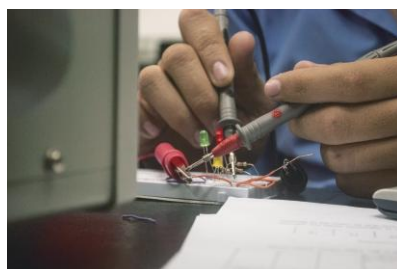


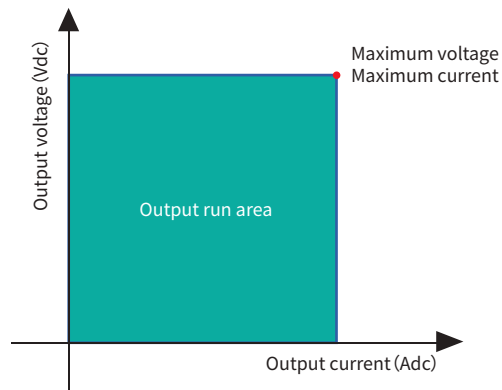


HY-DWSU Series DC Power Supply

Military Quality Power Supply Expert



Small size and large power



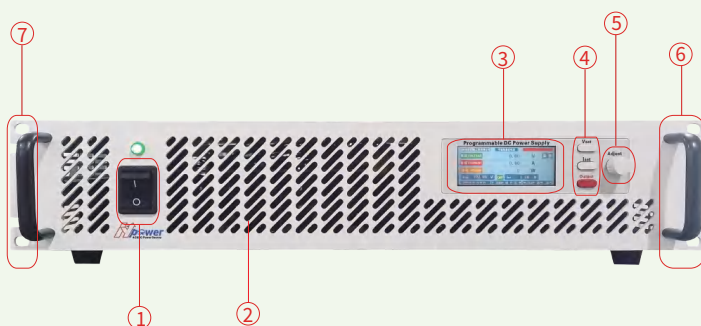
Product Features

- Maximum output power 10kW-200kW
- Output voltage 300-500V or 400-1000V optional
- Maximum output current 1000A
- Input standard PFC, power factor up to 0.98
- 16 bits D/A high precision converter, accurate output
- 16 bits A/D high precision converter, more accurate read back

Application Field

- Power Electronics
- Scientific Research
- Instrumentation
- System integration

Appearance And Display



- ① Power input circuit breaker
- ② Air vent
- ③ Liquid crystal display
- ④ Voltage/current setting key
Shift Reset key
- ⑤ Shuttle adjustment knob
- ⑥ Chassis handle
- ⑦ 19-inch standard rack mounting holes

HY-DWSU Series Product Selection Table

Product Model Naming Rules

Product series	Output voltage	Output current	Optional function
HY-DWSU	500	- 300	- CF

Model selection Example:
 Product model: HY-DWSU 500-300-CF
 Output voltage 300-500V adjustable, output current 1-300A adjustable,
 Users choose to purchase custom features

Communication protocol	Standard communication interface	Optional communication interface
Modbus SCPI	RS-485 RS-232 Digital I/O	- LAN :Ethernet communicationinterface - CAN :CAN communication interface - GPIB :GPIB communication interface - IA :Analog quantity programming and monitoring interface (isolated type)

* All technical indicators can only be guaranteed when the equipment runs continuously for more than 30 minutes at the specified operating temperature.

HY-DWSU Series Product Model Selection And Parameters

Special specifications outside the voltage/current/power range in the selection table can be customized.

10kW Series Power Supply Selection

Models	Output voltage	Output current	Output power
HY-DWSU 300-33	300V	33A	10kW
HY-DWSU 400-25	400V	25A	10kW
HY-DWSU 500-20	500V	20A	10kW
HY-DWSU 600-17	600V	17A	10kW
HY-DWSU 700-14	700V	14A	10kW
HY-DWSU 800-12	800V	12A	10kW
HY-DWSU 900-11	900V	11A	10kW
HY-DWSU 1000-10	1000V	10A	10kW

15kW Series Power Supply Selection

Models	Output voltage	Output current	Output power
HY-DWSU 300-50	300V	50A	15kW
HY-DWSU 400-37	400V	37A	15kW
HY-DWSU 500-30	500V	30A	15kW
HY-DWSU 600-25	600V	25A	15kW
HY-DWSU 700-21	700V	21A	15kW
HY-DWSU 800-19	800V	19A	15kW
HY-DWSU 900-17	900V	17A	15kW
HY-DWSU 1000-15	1000V	15A	15kW

20kW Series Power Supply Selection

Models	Output voltage	Output current	Output power
HY-DWSU 300-66	300V	66A	20kW
HY-DWSU 400-50	400V	50A	20kW
HY-DWSU 500-40	500V	40A	20kW
HY-DWSU 600-33	600V	33A	20kW
HY-DWSU 700-28	700V	28A	20kW
HY-DWSU 800-25	800V	25A	20kW
HY-DWSU 900-22	900V	22A	20kW
HY-DWSU 1000-20	1000V	20A	20kW

30kW Series Power Supply Selection

Models	Output voltage	Output current	Output power
HY-DWSU 300-100	300V	100A	30kW
HY-DWSU 400-75	400V	75A	30kW
HY-DWSU 500-60	500V	60A	30kW
HY-DWSU 600-50	600V	50A	30kW
HY-DWSU 700-43	700V	43A	30kW
HY-DWSU 800-37	800V	37A	30kW
HY-DWSU 900-33	900V	33A	30kW
HY-DWSU 1000-30	1000V	30A	30kW

HY-DWSU Series Product Selection Table

45kW Series Power Supply Selection

Models	Output voltage	Output current	Output power
HY-DWSU 300-150	300V	150A	45kW
HY-DWSU 400-112	400V	112A	45kW
HY-DWSU 500-90	500V	90A	45kW
HY-DWSU 600-75	600V	75A	45kW
HY-DWSU 700-64	700V	64A	45kW
HY-DWSU 800-56	800V	56A	45kW
HY-DWSU 900-50	900V	50A	45kW
HY-DWSU 1000-45	1000V	45A	45kW

60kW Series Power Supply Selection

Models	Output voltage	Output current	Output power
HY-DWSU 300-200	300V	200A	60kW
HY-DWSU 400-150	400V	150A	60kW
HY-DWSU 500-120	500V	120A	60kW
HY-DWSU 600-100	600V	100A	60kW
HY-DWSU 700-86	700V	86A	60kW
HY-DWSU 800-75	800V	75A	60kW
HY-DWSU 900-67	900V	67A	60kW
HY-DWSU 1000-60	1000V	60A	60kW

80kW Series Power Supply Selection

Models	Output voltage	Output current	Output power
HY-DWSU 300-267	300V	267A	80kW
HY-DWSU 400-200	400V	200A	80kW
HY-DWSU 500-160	500V	160A	80kW
HY-DWSU 600-133	600V	133A	80kW
HY-DWSU 700-114	700V	114A	80kW
HY-DWSU 800-100	800V	100A	80kW
HY-DWSU 900-89	900V	89A	80kW
HY-DWSU 1000-80	1000V	80A	80kW

100kW Series Power Supply Selection

Models	Output voltage	Output current	Output power
HY-DWSU 300-333	300V	333A	100kW
HY-DWSU 400-250	400V	250A	100kW
HY-DWSU 500-200	500V	200A	100kW
HY-DWSU 600-166	600V	166A	100kW
HY-DWSU 700-142	700V	142A	100kW
HY-DWSU 800-125	800V	125A	100kW
HY-DWSU 900-111	900V	111A	100kW
HY-DWSU 1000-100	1000V	100A	100kW

150kW Series Power Supply Selection

Models	Output voltage	Output current	Output power
HY-DWSU 300-500	300V	500A	150kW
HY-DWSU 400-375	400V	375A	150kW
HY-DWSU 500-300	500V	300A	150kW
HY-DWSU 600-250	600V	250A	150kW
HY-DWSU 700-214	700V	214A	150kW
HY-DWSU 800-187.5	800V	187.5A	150kW
HY-DWSU 900-166	900V	166A	150kW
HY-DWSU 1000-150	1000V	150A	150kW

200kW Series Power Supply Selection

Models	Output voltage	Output current	Output power
HY-DWSU 300-666	300V	666A	200kW
HY-DWSU 400-500	400V	500A	200kW
HY-DWSU 500-400	500V	400A	200kW
HY-DWSU 600-333	600V	333A	200kW
HY-DWSU 700-286	700V	286A	200kW
HY-DWSU 800-250	800V	250A	200kW
HY-DWSU 900-222	900V	222A	200kW
HY-DWSU 1000-200	1000V	200A	200kW

Constant Pressure Mode (CV Mode)

Output Range Can Be Set	300-500V or 400-1000V is adjustable
Input Adjustment Rate	≤ 0.05% +0.05% (Range of measuring)
Load Adjustment Rate	≤ 0.05% +0.05% (Range of measuring)
Rise Time	> 10 s (Built-in soft boot function)

HY-DWSU Series Technical Parameters

Constant Current Mode (CC Mode)

Output Range Can Be Set	1 - Rated Output Value
Input Adjustment Rate	$\leq 0.05\% + 0.05\%$ (Range of measuring)
Load Adjustment Rate	$\leq 0.05\% + 0.05\%$ (Range of measuring)
Ripple Effective Value rms (3Hz-300kHz)	$\leq 0.5\%$

Programming And Readback Accuracy & Resolution

Voltage Output Programming Accuracy	1% of output voltage + 0.5% of rated output voltage
Current Output Programming Accuracy	1% of output current + 0.5% of rated output current (in constant current programming mode, the readback and monitoring accuracy do not include the influence of heating drift and load temperature change rate)
Voltage Setting Resolution	0.01V ($\leq 600V$), 0.1V ($> 600V$)
Current setting resolution	0.01A ($\leq 600A$), 0.1A ($> 600A$)
Voltage Output Read-Back Accuracy	1% of output voltage + 0.5% of rated output voltage
Current Output Read-Back Accuracy	1% of output current + 0.5% of rated output current
Voltage Read Back Resolution	0.01V ($\leq 600V$), 0.1V ($> 600V$)
Current Read Back Resolution	0.01A ($\leq 600A$), 0.1A ($> 600A$)

Stability And Temperature Coefficient

Temperature Drift (Rated Output Voltage/Current)	U: 0.01% I: 0.01% (After 30 minutes of power on at a certain input voltage and load ambient temperature, 8 hours)
Temperature Coefficient (Rated Output Voltage/Current)	U: 50 ppm/ $^{\circ}C$ I: 70 ppm/ $^{\circ}C$ (30 minutes after power on)

Protection Function

OVP Overvoltage Protection Setting Range	10-110%, beyond the limit output immediately off
OCP Overcurrent Protection Setting Range	0-105%, beyond the limit output immediately off
OTP Overtemperature Protection	Output beyond the limit is turned off immediately
OPP Overpower Protection	10-110%, beyond the limit output immediately off

HY-DWSU Series Technical Parameters

Environmental Condition

Environment	Indoor use; Installation overvoltage class: II; Pollution level: P2; Class II equipment
Operating Ambient Temperature	-20°C to 50°C
Storage Ambient Temperature	-40°C to 75°C,
Working Ambient Humidity	20%-90% RH, no dew formation, continuous operation
Storage Environment Humidity	10% - 95% RH, no dew formation
Altitude	Above 2000 meters above sea level, every 100 meters up, the power will be reduced by 2%, or reduce the maximum working ambient temperature by 1°C per 100 meters; When not in operation, the altitude can reach 12,000 meters
Cooling	Forced air cooling, intelligent speed regulating fan, front/side air inlet, rear air outlet
Noise	≤ 65dB(A), use 1 m to weighted measurement

Control Panel

Display	Liquid crystal display screen
Control Function	Shuttle adjustment knob

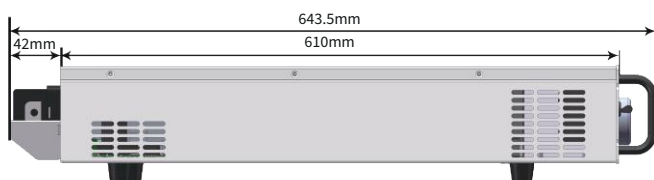
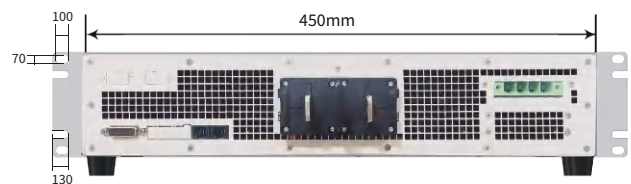
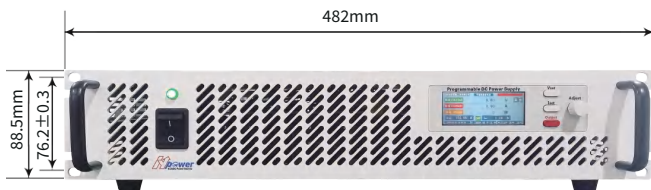
Input Power Supply

Frequency	47 Hz - 63 Hz
Connection Mode	Three-phase three-wire + ground wire, 380 V ± 15%
Power Factor	≥ 0.98 (load ≥ 50%)
Efficiency	≤ 93%

Communication Interface

Standard Configuration	RS-485 & RS-232, Digital I / O
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2U model: 450(W) * 610(D) * 88.5(H) mm



Power Semiconductor Customer

 Changchun National Science	 Electrical industry	 China Resources Microelectronics	 Shanghai Huinengtai Semiconductor	 Yuexin Technology	 Wishing to create technology	 Group core microelectronics
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Cooperative Clients (Partial)

Aerospace & Defense Military Industry Research Institute



CASC



CASIC



AVIC



AECC



CETC



CSSC



CSIC

CASC 800 (Shanghai Aerospace Precision Machinery Research Institute)

CASC 801 (Shanghai Institute of Space Propulsion)

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CASC 502 (Beijing Control Engineering Research Institute)

CASC 510 (Lanzhou Institute of Space Technology Physics)

CASC 203 (China Ordnance Industry 203 Research Institute)

CASIC 206 (Beijing Machinery and Equipment Research Institute)

CASIC 242 Factory (Lanzhou Flight Control Co., LTD.)

CASIC 307 Factory (Aerospace Chenguang Co., LTD.)

CASIC 33 (33 Aerospace Science and Industry Institutes)

CASIC 3651 Factory (Shanghai Aerospace Control Technology Institute)

AVIC 603 (AVIC Xi 'an Aircraft Design and Research Institute)

AVIC 613 (Luoyang Electro-Optical Equipment Research Institute of Aviation Industry Corporation of China)

AVIC 615 (Aeronautical Radio Electronics Research Institute of China)

AVIC 618 (Xi 'an Flight Automatic Control Research Institute)

AVIC 631 (Aviation Computing Technology Research Institute of AVIC)

AVIC 105 Factory (Tianjin Aviation Electromechanical Co., LTD.)

AVIC 115 Factory (Shaanxi Aero Electric Co., LTD.)

AVIC 118 Factory (Shanghai Aviation Electric Appliance Co., LTD.)

AVIC 135 Factory (State-owned Wanli Electromechanical Factory)

AVIC 181 Factory (Wuhan Aviation Instrument Co., LTD.)

AVIC 304 (Beijing Great Wall Institute of Measurement and Testing Technology)

AECC 606 (Shenyang Engine Research Institute)

AVIC 607 (China Leihua Electronic Technology Institute)

Jiangnan Shipbuilding (Group) Co., LTD

Nanjing Panda Electronics Co., LTD

State-owned 741 Factory (Nanjing Huadong Electronics Group Co., LTD.)

Institute of Modern Physics, Chinese Academy of Sciences

CETC 14 (Nanjing Institute of Electronic Technology)

CETC 21 (Shanghai Micromotor Research Institute)

CETC 23 (Shanghai Transmission Line Research Institute)

CETC 36 (Gangnam Electronics and Communication Research Institute)

CETC 38 (East China Institute of Electronic Engineering)

CETC 50 (Shanghai Microwave Technology Research Institute)

CETC 51 (Shanghai Microwave Equipment Research Institute)

CETC 54 (Shijiazhuang Communication Measurement and Control Technology Research Institute)

CETC 55 (Nanjing Institute of Electronic Devices)

CSIC 707 (Tianjin Institute of Marine Instruments)

CSIC 7107 (Shaanxi Aerospace Navigation Equipment Co., LTD.)

CSIC 719 (Wuhan Second Ship Design Institute)

CSIC 704 (Shanghai Marine Equipment Research Institute)

CSIC 726 (Shanghai Marine Electronic Equipment Research Institute)

Scientific Research & Third Party Quality Inspection Agency



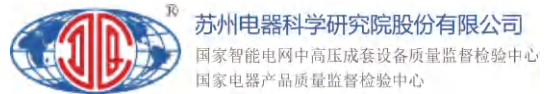
Technical Institute of Physics and Chemistry (Beijing)

Institute of Urban Environment (Xiamen)



Electrotechnical Research Institute (Beijing)

Institute of Applied Physics (Shanghai)



Cooperative Clients (Partial)

The Chinese People's Liberation Army

South Sea Fleet
 East China Sea Fleet
 North Sea Fleet
 Navy Factory 701 / Factory 702
 4724 Factory (Shanghai Haiying Machinery Factory)
 Unit 95861 (Air First Base)
 5720 Factory of the People's Liberation Army of China

Commercial Aviation



Commercial Aircraft Corporation of China
 Guangzhou Aircraft Maintenance Engineering Co., LTD



Rockwell Collins



Beijing Aircraft Maintenance Engineering Co., LTD

Military Academies & Local Universities



National University of Defense Technology



Aerospace Engineering University



Army Engineering University



Air Force Engineering University



Naval University of Engineering



Dalian Naval Academy



Naval Aviation University



Beihang University



Beijing Institute of Technology



Harbin Institute of Technology



Harbin Engineering University



Nanjing University of Aeronautics and Astronautics



Nanjing University of Science and Technology



Northwestern Polytechnical University



University of Science and Technology of China



Tsinghua University



Peking University



Shanghai Jiaotong University



Zhejiang University



Tianjin University



Huazhong University of Science and Technology



University of Electronic Science and Technology



Shanghai University



Beijing University of Technology



Shanghai Maritime University



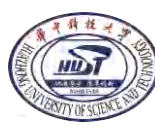
Dalian University of Technology



Dalian Maritime University



South China University of Technology



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Sichuan University



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North China Institute of Aerospace Engineering



Fudan University



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North China Electric Power University



Changchun Institute of Technology



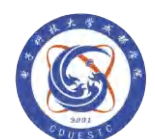
Xiangtan University



Zhejiang University of Technology



Xi'an University of Technology



University of Electronic Science and Technology of China



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All technical data and instructions are based on the actual product

If there is any change, Hangyu Power has the final interpretation right

Authorized distributor:

