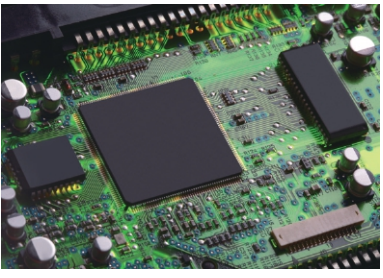
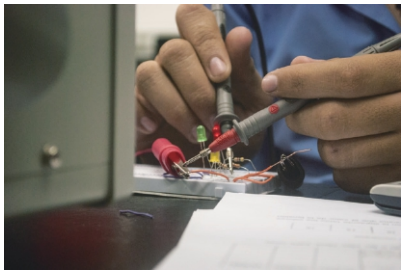
AC&DC Power Source

HY-DW Series DC Power Supply

Military Quality Power Supply Expert



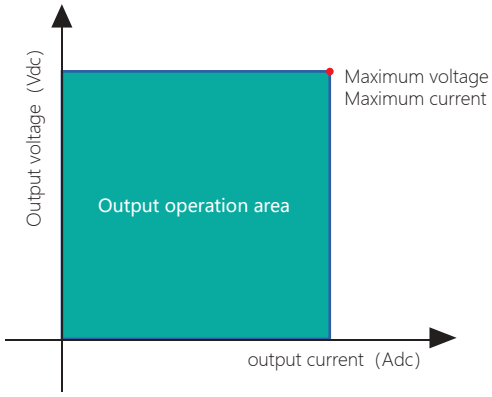


www.hypower.cn

HY-DW Series DC Power Supply

Small size and high power

Small size and high power This power supply is a programmable power supply with multiple voltage and current input rangesSurrounding, covering various existing limits and meeting various testing needs.



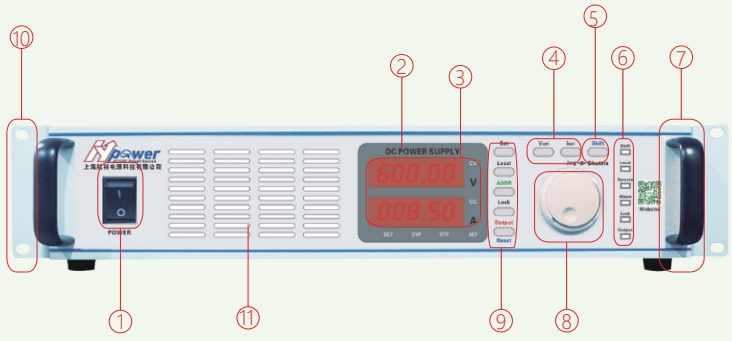
Product Features

- Output power maximum 10kW - 200kW
- Output voltage 200-500V or 400-1000V optional
- Output current maximum 1000A
- Input standard configuration PFC, Power factor up to 0.98
- 16 bits D/A High-precision converter, Accurate output
- 16 bits A/D High-precision converter, Read back more accurately

Application Area

- Power electronics
- Scientific research
- Instrumentation
- System integration

High Voltage Test



① Power input circuit breaker
② Digital tube display
③ Voltage/current display
④ Voltage/current setting key
⑤ Shift Function reset key
⑥ Status indicator light
⑦ Chassis handle
⑧ Multistage shuttle adjustment knob (Inner ring Fine tuning/Outer circle Major adjustments)
⑨ Lock : lock、Enter: confirm、Esc : exit
Local : this locality、Reset: Restart the machine
Output ON/OFF: switch
⑩ 19 inch standard rack mounting holes
⑪ Vents

HY-DW Series Product Selection

Product Selection Instructions

Product Model Naming Rules

Product Series	Output voltage		Output current		Optional function
HY-DW	500	-	400	-	CF

Selection examples:
Model: HY-DW 500-400-CF
Output voltage 200-500V adjustable, output current 400-1000A,
Choose User Defined Features

Communication protocol

Modbus
SCPI

Standard communication interface

RS-485
RS-232
Digital I/O

Optional communication interface
(Users can install it themselves)

- LAN : Ethernet communication interface
- CAN : CAN communication interface
- GPIB : GPIB communication interface
- IA : Analog programming and monitoring interface (isolated type)

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

HY-DW Series Product Selection And Parameters

In the selection table, special specifications beyond the voltage/current/power range are accepted for customization.

200kW Series Power Selection

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

150kW Series Power Selection

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

HY-DW Series Product Selection

100kW Series Power Selection

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

80kW Series Power Selection

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

60kW Series Power Selection

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

45kW Series Power Selection

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

30kW Series Power Selection

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

20kW Series Power Selection

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

HY-DW Series Technical Parameter

15kW Series Power Selection

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

10kW Series Power Selection

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

Constant Voltage Mode (CV Mode)

Settable output range	200-500V或400-1000V adjustable
Input adjustment rate	≤ 0.05% +0.05% (range)
Load Regulation	≤ 0.05% +0.05% (range)
rise time	> 10 s (Built-in soft start function)

Constant Current Mode (CC Mode)

Settable output range	1 - Rated output value
Input adjustment rate	≤ 0.05% +0.05% (range)
Load Regulation	≤ 0.05% +0.05% (range)
Ripple effective value rms (3Hz-300KHz)	≤ 0.5%

Programming And Reading Back 、Accuracy 、Resolution Ratio

Voltage Output Programming accuracy	Rated output voltage 0.5%
Current output Programming accuracy	Output current 0.2%+Rated output current 0.2% (When in constant current programming mode, the accuracy of reading back and monitoring does not include the influence of heating drift and load temperature change rate)
Voltage setting Resolution ratio	0.01V（≤60V）, 0.1V（＞600V）
Current Setting Resolution ratio	0.01A（≤60A）, 0.1A（＞600A）
Voltage Output Read back accuracy	Output voltage 0.1%+Rated output voltage 0.1%
Current output Read back accuracy	Output current 0.2%+Rated output current 0.5%
Voltage read back Resolution ratio	0.01V（≤60V）, 0.1V（＞600V）
Current reading back Resolution ratio	0.01A（≤60A）, 0.1A（＞600A）

Stability、Temperature Coefficient

Temperature drift (rated output voltage/current)	U: 0.01%	I: 0.01%（After turning on the power at a certain input voltage, load, and ambient temperature for 30 minutes, 8 hours）
Temperature coefficient (rated output voltage/current)	U: 50 ppm/℃	I: 70 ppm/℃（After 30 minutes of power on）

Protection Function

OVP Overvoltage protection setting range	10 - 110%，Immediate shutdown of output beyond limit
OCP Overcurrent protection setting range	0 - 105%，Immediate shutdown of output beyond limit
OTP Over temperature protection	Immediate shutdown of output beyond limit
OPP Over power protection	10 - 110%，Immediate shutdown of output beyond limit

Ambient Condition

Environment	Indoor use; Installation overvoltage level: II; Pollution level: P2; Class II equipment
Ambient Temperature	-20℃ to 50℃
Storage environment temperature	-40℃ to 75℃，
Working environment humidity	20%-90% RH，No condensation, continuous operation
Storage environment humidity	10% - 95% RH，No condensation
Altitude	Above an altitude of 2000 meters, the power decreases by 2% for every 100 meters increase, or the maximum working environment temperature decreases by 1 ℃ for every 100 meters;When not in operation, it can reach an altitude of 12000 meters
Burial	Forced air cooling, intelligent variable speed fan, front/side air inlet, rear air outlet
Noise	≤ 65dB(A)，Weighted measurement with 1 m

Outline Dimension Appearance & Size

Control Panel

monitor	Digital tube display
control function	Multistage shuttle adjustment knob（Inner ring Fine tuning/Outer circle Major adjustments）

Input Power Supply

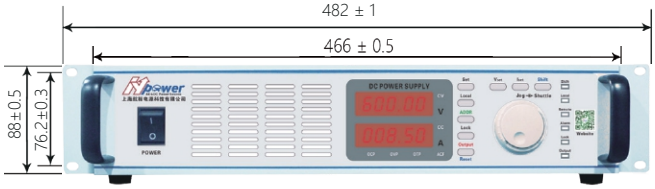
frequency	47 Hz - 63 Hz
Connection	Three phase three wire+Ground wire，380 V ± 15%
Power factor	≥ 0.98（load≥ 50%）
Efficiency	≤93%

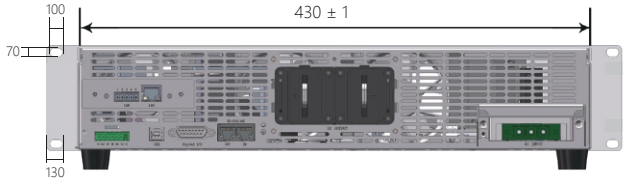
Interface

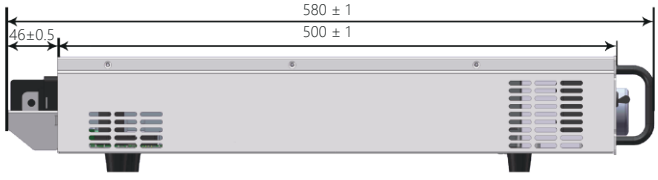
Standard configuration	RS-485 & RS-232, Digital I / O

Outline Dimension Appearance&Size

2U　430(W) * 500(D) * 88(H) mm







Cooperative Clients (Partial)

Power Semiconductor Customers

Changchun Guoke

Electrical industry

China Resources Microelectronics

Shanghai Huinengtai Semiconductor

Yuexin Technology

Wishing to create technology

Group core microelectronics

Hangzhou Zhongsi

Feishide

Suzhou Lianxun Instrument

Weiyujia Semiconductor

Shanghai Zhanxin Semiconductor

Chengxin Technology

Zhuoxinda Technology

Enterprises In The Field Of Automotive Electronics

China Automotive Research and Development

Heavy Industry Automotive Research and Development

BMW Brilliance

Red Banner

SAIC Group

SAIC Volkswagen

GEELY

tesla

Weilai

Xiaomi Automobile

BYD

value

polary

Lantu Automobile

Inovance

HAOMO.AI

MKLtech

Shanghai Tongmin Vehicle

Ningde Era

Human Horizons

Hezhong New Energy

High Tech R&D Enterprises

Huawei

FARATRONIC

Panasonic

EPCOS

TYCO

Weidmuller

Honeywell

Nader

SIEMENS

ABB

Schneider

NOSRK

HONGFA

EOPLE

FLUKE

Philips

Gree

Guilin Rubber Machinery Factory

CASCO

CRRC

US PI

HILTI

BOSCH

linde

NARI-TECHNOLOGY

Shanghai Electric

New Thunder Energy

Silan

Aerospace And National Defense Military Industry Research Institute

china aerospace | CASIC | aviation industry | China Aerospace | CETC | CSSC | CSIC

CASC 800 institute (Shanghai Aerospace Precision Machinery Research Institute)
CASC 801 institute (Shanghai Institute of Space Propulsion)
CASC 803 institute (Shanghai Institute of Space Propulsion)
CASC 804 institute (Shanghai Aerospace Electronic Communication Equipment Research Institute)
CASC 805 institute (Shanghai Aerospace Systems Engineering Research Institute)
CASC 808 institute (Shanghai Institute of Precision Metrology and Testing)
CASC 811 institute (Shanghai Space Power Research Institute)
CASC 812 institute (Shanghai Satellite Equipment Research Institute)
CASC 502 institute (Beijing Institute of Control Engineering)
CASC 510 institute (Lanzhou Institute of Space Technology Physics)
CASIC 206 institute (Beijing Institute of Mechanical Equipment)
CASIC 307 factory (Aerosun Corporation)
CASIC 33 institute (Institute 33 of Aerospace Science and Industry Third Institute)
CASIC 3651 factory (Guizhou Aerospace Linquan Motor Co., Ltd)

AVIC 603 institute (AVIC Xi'an Aircraft Design and Research Institute)
AVIC 613 institute (China Aviation Industry Group Luoyang Electro Optic Equipment Research Institute)
AVIC 615 institute (China Aviation Industry Group Luoyang Electro Optic Equipment Research Institute)
AVIC 618 institute (Xi'an Automatic Flight Research Institute of China Radio Aviation Research Institute)
AVIC 631 institute (AVIC Aerospace Computing Technology Research Institute)
AVIC 105 factory (Tianjin Aviation Electromechanical Co., Ltd)
AVIC 115 factory (Shaanxi Aviation Electric Co., Ltd)
AVIC 118 factory (Shanghai Aviation Electrical Appliances Co., Ltd)
AVIC 181 factory (Wuhan Aviation Instrument Co., Ltd)
AVIC 607 institute (China Leihua Electronic Technology Research Institute)
AVIC 304 institute (Beijing Great Wall Metrology and Testing Technology Research Institute)
AECC 606 institute (Shenyang Engine Research Institute)

CETC 14 institute (Nanjing Institute of Electronic Technology)
CETC 21 institute (Shanghai Micromotor Research Institute)
CETC 23 institute (Shanghai Transmission Line Research Institute)
CETC 36 institute (Jiangnan Electronic Communication Research Institute)
CETC 38 institute (East China Electronic Engineering Research Institute)
CETC 50 institute (Shanghai Microwave Technology Research Institute)
CETC 51 institute (Shanghai Microwave Equipment Research Institute)
CETC 54 institute (Shijiazhuang Communication Measurement and Control Technology Research Institute)
CETC 55 institute (Nanjing Institute of Electronic Devices)
CSIC 707 institute (Tianjin Institute of Navigation Instruments)
CSIC 7107 institute (Shaanxi Aerospace Navigation Equipment Co., Ltd)
CSIC 719 institute (Wuhan Second Ship Design and Research Institute)
CSIC 704 institute (Shanghai Shipbuilding Equipment Research Institute)
CSIC 726 institute (Shanghai Institute of Ship Electronic Equipment)
Jiangnan Shipbuilding (Group) Co., Ltd
Nanjing Panda Electronics Co., Ltd
State owned 741 Factory (Nanjing East China Electronics Group Co., Ltd.)

Scientific Research&Third Party Quality Inspection Institutions

Institute of Physical and Chemical Technology (Beijing)
Urban Environment Research Institute (Xiamen)
Institute of Electrical Engineering (Beijing)
Institute of Applied Physics (Shanghai)

中国科学院 CHINESE ACADEMY OF SCIENCES

中国工程物理研究院 CHINA ACADEMY OF ENGINEERING PHYSICS

中国地震局 地壳应力研究所 The Institute of Crustal Dynamics

福建省产品质量检验研究院 FUJIAN INSPECTION AND RESEARCH INSTITUTE FOR PRODUCT QUALITY

SEARI 上电科 上海電器科學研究所(集團)有限公司 Shanghai Electrical Apparatus Research Institute (Group) Co., Ltd.

苏州电器科学研究院股份有限公司
国家智能电网中高压成套设备质量监督检验中心
国家电器产品质量监督检验中心

长春市产品质量监督检验院 Changchun product quality supervision and inspection institute

西安市产品质量监督检验院 Xi'an Supervision & Inspection Institute of Product Quality

杭州市质量技术监督检测院 Hangzhou Technical Supervision and Procuratorate

Cooperative Clients

The Chinese People's Liberation Army

South China Sea Fleet

East China Sea Fleet

North Sea Fleet

Navy Factory 701/702

4724 Factory (Shanghai Haiying Machinery Factory)

95861 Unit (Air First Base)

The 5720th Factory of the People's Liberation Army of China

Commercial Aviation

Commercial Aircraft Corporation of China Limited

Rockwell Collins

Guangzhou Aircraft Maintenance Engineering Co., Ltd

Beijing Aircraft Maintenance Engineering Co., Ltd

Military Academies And 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

Huazhong University of Science and Technology

Xi'an Electronic Technology

Xi'an Jiaotong University

Sichuan University

donghua university

north china institute of aerospace engineering

Fudan University

Xiamen University

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

Official WeChat:
hypower-cn

About us

Hangyu Power was founded in 2011 and is a national high-tech enterprise, Located in Songjiang, the birthplace of the G60 Science and Technology Innovation Corridor in the Yangtze River Delta, for over a decade Strive to provide customers with accurate, intelligent, and convenient testing power solutionsPlan.

Our company adheres to the product positioning of "specialty, precision, specialty, and novelty", and On the basis of targeting the market demand for "import substitution", propose "poor The development strategy of "differentiated import substitution" and "high-quality manufacturing"is committed to Innovative development of testing power supply technology in China, promoting the rejuvenation of science and technology in China The national cause is thriving.

Hangyu Power Series products cover power semiconductors, automotive electronics Aerospace, Defense and Military Industry, Low Voltage Electrical Appliances, Medical, Sensors Capacitors, inductors, smart grids, airborne, shipborne, weapons, ships.

Radar, communication, rail transit, power electronics, and other testing and other disciplines In the field of research, we strive to achieve perfect import substitution, with excellent military q uality and service,

Win unanimous praise from users.

Contact us

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website:www.hangyupower.com

2009 Establishing Shanghai Ouzu Electronics Brand

2010 Successfully delivered 400kVA high-power AC power supply

2011 Hangyu Power Supply was established and officially put into operation as a three-phase precision AC power supply and militaryUsing a gyroscope to test the power supply, replacing Russian made products

2012 Formal production of programmable variable frequency power supply and AC constant current source

2013 Formal production of programmable AC/DC power supply and HY-AE excitation power supply

2014 Formal production of high-power bipolar testing power supply

2015 Formal production of HY-PM series and HY-GT series new models Dual phase/three-phase gyroscope power supply

2016 HY-HP series programmable high-power DC power supply officially put into operation

2017 HY-HV series programmable high-voltage DC power supply officially put into operation

2018 HY-CTL/CTS capacitor testing high-frequency high current testing power supply And successfully delivered 100kHz, 100Arms

2019 Official production of high-speed power supply for automotive electronic testing within 500kHz

2020 Officially put into operation LV123 new energy vehicle testing high-voltage ripple testing power supply

2021 HY-UHS series ultra-high stability magnet power supply officially put into operation

2022 HY-HVL series linear high-voltage programmable DC power supply officially put into operation