

# **HY-S Series**

1U Ultra-thin Programmable DC Power Supply

Military Quality Power Supply Expert





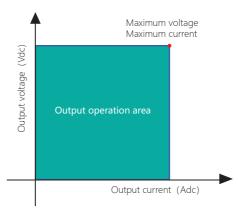
## **HY-S Series**

## 1U Ultra-thin Programmable DC Power Supply



High performance, precision, and power density





This power supply uses a new type of silicon carbide material with extremely high power density, Size only: 483(W) \* 445.5(D) \* 44.5(H) mm, Very lightweight, Easy to move, commonly used for system integration power supply.

#### **Product Features**

- Maximum output voltage of 600V, maximum output current of 180A
- High power density: 3.6kW
- Anti seismic, military grade three proofing (anti mold, anti moisture, and anti salt spray)
- Input standard PFC, with a power factor of up to 0.99
- 16 bits D/A High precision converter with precise output
- 20 bits A/D High precision converter for more accurate read back

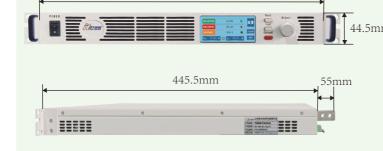
### **Application Area**

Commonly used for dynamic and static testing in the following application areas, such as power supply, aging Conduction, etc. Standard machine width, ultra-thin volume, very convenient for various testing ' systems Integration.

- Low voltage electrical testing
- Power semiconductor testing
- Power Electronics Testing
- Scientific research testing
- AEROSPACE
- National Defense and
  Military Industry
- Automotive Electronic
  Testing
- smart grid

#### **Product Display**

### 1U 483(W) \* 445.5(D) \* 44.5(H) mm



483mm





#### **Product Selection Instructions**

### **Product Model Naming Rules**

Product series	Output voltage	Output current	Optional function
HY-S	20	- 180	- CF

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)

Model: HY-S 20-180-CF

The model information is: Output voltage 0-20V,

Output current 0-180A Choose User Defined Features

### **Purchasing function**

- HR : High resolution/precision

- TP : Three phase input, AC 380 V

- T1  $\,$  : Operation temperature -10°C to 50°C

- T2  $\,$  : Operation temperature -20°C to 50°C

- T4  $\,$  : Operation temperature  $\,$  -40°C to  $\,$  50°C  $\,$ 

- CF : User defined functions (please specify when ordering)

- MR : Measurement report (issued by a third party certified by CNAS)

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

### **Product Selection Table**

If there is no model in the selection table that meets your needs, it can be proposed separately for special customization.

#### HY-S Series 1kW series Power selection

Models	Output voltage	Output current	Output power
HY-S 20-50	20V	50A	1kW
HY-S 30-33	30V	33A	1kW
HY-S 40-25	40V	25A	1kW
HY-S 60-16.7	60V	16.7A	1kW
HY-S 80-12.5	80V	12.5A	1kW
HY-S 100-10	100V	10A	1kW
HY-S 150-6.7	HY-S 150-6.7 150V		1kW

Models	Models Output voltage		Output power	
HY-S 200-5	200V	5A	1kW	
HY-S 250-4	250V	4A	1kW	
HY-S 300-3.3	300V	3.3A	1kW	
HY-S 350-3	350V	3A	1kW	
HY-S 400-2.5	400V	2.5A	1kW	
HY-S 500-2	HY-S 500-2 500V		1kW	
HY-S 600-1.7 600V		1.7A	1kW	

## **HY-S Series Product Selection Table**

#### HY-S Series 1.6kW series Power selection

Models	Output voltage	Output current	Output power	
HY-S 20-80	20V	80A	1.6kW	
HY-S 30-53	30V	53A	1.6kW	
HY-S 40-40	40V	40A	1.6kW	
HY-S 60-26.7	60V	26.7A	1.6kW	
HY-S 80-20	80V	20A	1.6kW	
HY-S 100-16	100V	16A	1.6kW	
HY-S 150-10.7	S 150-10.7 150V		1.6kW	

Models	Output voltage	Output current	Output power
HY-S 200-8	200V	8A	1.6kW
HY-S 250-6.4	250V	6.4A	1.6kW
HY-S 300-5.3	300V	5.3A	1.6kW
HY-S 350-4.6	350V	4.6A	1.6kW
HY-S 400-4	400V	4A	1.6kW
HY-S 500-3.2	500V	3.2A	1.6kW
HY-S 600-2.7	600V	2.7A	1.6kW

#### HY-S Series 2.5kW series Power selection

Models Output voltage		Output current	Output power
HY-S 20-125	20V	125A	2.5kW
HY-S 30-83	30V	83A	2.5kW
HY-S 40-62.5	40V	62.5A	2.5kW
HY-S 60-41.7	60V	41.7A	2.5kW
HY-S 80-31	80V	31A	2.5kW
HY-S 100-25	100V	25A	2.5kW
HY-S 150-16.7	150V	16.7A	2.5kW

Models	Output voltage	Output current	Output power
HY-S 200-12.5	200V	12.5A	2.5kW
HY-S 250-10	250V	10A	2.5kW
HY-S 300-8.3	300V	8.3A	2.5kW
HY-S 350-7	350V	7A	2.5kW
HY-S 400-6.3	400V	6.3A	2.5kW
HY-S 500-5	IY-S 500-5 500V		2.5kW
HY-S 600-4.2	HY-S 600-4.2 600V		2.5kW

#### HY-S Series 3.6kW series Power selection

Models	Output voltage	Output current	Output power	
HY-S 20-180	20V	180A	3.6kW	
HY-S 30-120	30V	120A	3.6kW	
HY-S 40-90	40V	90A	3.6kW	
HY-S 60-60	60V	60A	3.6kW	
HY-S 80-45	80V	45A	3.6kW	
HY-S 100-36	100V	36A	3.6kW	
HY-S 150-24	150V	24A	3.6kW	

Models	Output voltage	Output current	Output power	
HY-S 200-18	200V	18A	3.6kW	
HY-S 250-14.4	250V	14.4A	3.6kW	
HY-S 300-12	Y-S 300-12 300V		3.6kW	
HY-S 350-10.3	350V	10.3A	3.6kW	
HY-S 400-9	Y-S 400-9 400V		3.6kW	
HY-S 500-7.2	HY-S 500-7.2 500V		3.6kW	
HY-S 600-6 600V		6A	3.6kW	

### **Product Parameters**

### DC 1000W (20V-150V)

Models		HY-S 20-50	HY-S 30-33	HY-S 40-25	HY-S 60-16.7	HY-S 80-12.5	HY-S 100-10	HY-S 150-6.7
Rated output voltage	V	20V	30V	40V	60V	80V	100V	150V
output current	А	50A	33A	25A	16.7A	12.5A	10A	6.7A
Rated output power	W	1kW	1kW	1kW	1kW	1kW	1kW	1kW
Efficiency	%	85%	85%	87%	87%	87%	87%	87%
CV Mode			ı	1	1		ı	
Settable output range	V			0-Rated ou	utput value			
Input adjustment rate	mV	Rated output voltage 0.01% +2mV (AC input 220 V ± 15%, constant load)						
Load regulation	mV	Rated output voltage 0.01% +2mV (No load to full load, constant input voltage, measurement at remote compensation point)						
Telemetry maximum compensation voltage	V	<30V时 2V; ≥30V时 8V; (Customizable according to demand)						
Ripple effective value rms (3 Hz - 300 kHz)	mVrms	7.5	7.5 6 7 7 7			7	8	8
Noise peak to peak p-p (20 Hz - 20 MHz)	mVpp	60	50	60	60	75	75	75
Output voltage rise time	ms	80	80	80	80	150	150	150
Output voltage drop time (full load)	ms	50	80	80	80	150	150	150
Output voltage drop time (no-load)	ms	800	900	1000	1100	1200	1500	2000
Transient response time  CC Mode	The time for the output voltage to recover to within 0.5% of the rated voltage. The variation value of the output current is between 10% and 90% of the rated value. Output voltage setting range: 10-100%, local sampling. Output models below 100V:<1ms, output models above 100V:<2ms.							
Settable output range	А			0-Rated ou	ıtput value			
Input adjustment rate	mA		Rated output cu	rrent 0.01% +2r	mA (AC input	220 V ± 15%,	constant load)	
Load regulation	mA	Ra	ited output curre	nt 0.02% +5mA	(No load to	full load, consta	ant input voltag	e)
Ripple effective value rms ( 3 Hz - 300 kHz )	mArms	50	45	30	15	10	10	8
Programming and read back a	accuracy	&resolution						
Voltage output programming accura	acy Ra	ited output volta	ge 0.05%, Meas	surement at tele	emetry points			
Current output programming accura			0.1%+Rated output lude the influence of l				mode, the accuracy	of reading back an
Voltage setting resolution	0.	0.001V (≤60 V) ,0.01V (≤600 V) , 0.1V (>600 V)						
Current setting resolution	0.	0.001A (≤60 A) ,0.01A (≤600 A) , 0.1A (>600 A)						
Voltage output readback accuracy	Ra	Rated output voltage 0.05%						
Current output readback accuracy		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 read back resolution		0.00001 V ( ≤ 10 V ),0.0001 V ( ≤ 100 V ), 0.001 V ( 100 V < U ≤ 1000 V ), 0.01 V ( > 1000 V )						
Current read back resolution	0.	00001 A ( ≤ 10 A	), 0.0001 A ( ≤ 10	00 A ), 0.001 A (	100 A < I ≤ 10	00 A )		
Stability and temperature coef	fficient							
Temperature drift	U: 0.	D1% I: 0	0.01% (After 30 mir	nutes of power on	at a certain inpu	ut voltage and loa	ad ambient tempe	erature, 8 hours)
Temperature coefficient	U: 50	)ppm/°C l: 7	70ppm/°C (After	30 minutes of	power on)			

### DC 1000W (200V-600V)

Models		HY-S 200-5	HY-S 250-4	HY-S 300-3.3	HY-S 350-3	HY-S 400-2.5	HY-S 500-2	HY-S 600-1.7	
Rated output voltage	V	200V	250V	300V	350V	400V	500V	600V	
output current	А	5A	4A	3.3A	3A	2.5A	2A	1.7A	
Rated output power	W	1kW	1kW	1kW	1kW	1kW	1kW	1kW	
Efficiency	%	87%	87%	87%	87%	87%	87%	87%	
CV Mode									
Settable output range	V			0-Rated ou	ıtput value				
Input adjustment rate	mV		Rated output voltage 0.01% +2mV (AC input 220 V ± 15%, constant load)						
Load regulation	mV	Rated output vol	ated output voltage 0.01% +2mV (No load to full load, constant input voltage, measurement at remote compensation point)						
Telemetry maximum compensation voltage	V	8V (Customizable according to demand)							
Ripple effective value rms ( 3 Hz - 300 kHz )	mVrms	12	16	20	30	30	45	60	
Noise peak to peak p-p (20 Hz - 20 MHz)	mVpp	90	110	130	180	180	250	300	
Output voltage rise time	ms	150	150	150	150	150	200	250	
Output voltage drop time (full load)	ms	150	150	150	150	150	200	250	
Output voltage drop time (no-load)	ms	2100	2300	2500	3000	3000	3500	4000	
Transient response time  CC Mode	ms		e time for the outpo current is between 1						
Cattalala autout non n		A 0-Rated output value							
Settable output range	А			0-Rated ou	ıtput value				
Input adjustment rate	A mA		Rated output cu		<u>'</u>	220 V ± 15%, (	constant load)		
, ,			Rated output cu	rrent 0.01% +2n	mA (AC input			e)	
Input adjustment rate	mA		· · · · · · · · · · · · · · · · · · ·	rrent 0.01% +2n	mA (AC input			e) 4	
Input adjustment rate  Load Regulation  Ripple effective value rms	mA mA mArms	Ra 8	ted output curre	rrent 0.01% +2n nt 0.02% +5mA	mA (AC input and (No load to f	ull load, consta	nt input voltag		
Input adjustment rate  Load Regulation  Ripple effective value rms ( 3 Hz - 300 kHz )	mA mA mArms	Ra 8 <b>Kresolution</b>	ted output curre	rrent 0.01% +2n nt 0.02% +5mA 6	nA (AC input and (No load to f	ull load, consta	nt input voltag		
Input adjustment rate  Load Regulation  Ripple effective value rms (3 Hz - 300 kHz)  Programming and read back a	mA mA mArms accuracy& Rated	8  Rresolution  output voltage	ted output curre 7  0.05%, Measure	rrent 0.01% +2n nt 0.02% +5mA 6	mA (AC input and (No load to find the find find find find find find find find	full load, consta	nt input voltag 5	4	
Input adjustment rate  Load Regulation Ripple effective value rms (3 Hz - 300 kHz)  Programming and read back a  Voltage output programming accuracy	mA mArms nccuracy& Rated Rated monitor	Ra 8 & resolution output voltage output current 0.15 ing does not include	ted output curre	rrent 0.01% +2n nt 0.02% +5mA 6 ement at teleme rent 0.1% (When ing drift and load te	mA (AC input and (No load to find the find find find find find find find find	full load, consta	nt input voltag 5	4	
Input adjustment rate  Load Regulation  Ripple effective value rms ( 3 Hz - 300 kHz )  Programming and read back a  Voltage output programming accuracy  Current output programming accuracy	mA mArms accuracy& Rated Rated amonitor 0.001\	Ra  8  Rresolution  output voltage  output current 0.15 ing does not include  / (≤60 V) ,0.01	7  0.05%, Measure %+Rated output cure the influence of heat	rrent 0.01% +2n nt 0.02% +5mA 6 ement at teleme rent 0.1% (When in ing drift and load te	mA (AC input and (No load to find the find find find find find find find find	full load, consta	nt input voltag 5	4	
Input adjustment rate  Load Regulation  Ripple effective value rms (3 Hz - 300 kHz)  Programming and read back a  Voltage output programming accuracy  Current output programming accuracy	mA mArms mArms accuracy& Rated Rated of monitor 0.001\ 0.001\	Ra  8  Rresolution  output voltage  output current 0.15 ing does not include  / (≤60 V) ,0.01	ted output curre 7  0.05%, Measure %+Rated output cur te the influence of heat V (≤600 V), 0.	rrent 0.01% +2n nt 0.02% +5mA 6 ement at teleme rent 0.1% (When in ing drift and load te	mA (AC input and (No load to find the find find find find find find find find	full load, consta	nt input voltag 5	4	
Input adjustment rate  Load Regulation  Ripple effective value rms (3 Hz - 300 kHz)  Programming and read back a  Voltage output programming accuracy  Current output programming accuracy  Voltage setting resolution  Current setting resolution	mA mArms accuracy8 Rated Rated comonitor 0.001N 0.001A Rated	Ra  8  Rresolution  output voltage  output current 0.15  ing does not include  ( <60 V) ,0.01  ( <60 A) ,0.00  output voltage	ted output curre 7  0.05%, Measure %+Rated output cur te the influence of heat V (≤600 V), 0.	rrent 0.01% +2n nt 0.02% +5mA 6 ement at teleme rent 0.1% (When is ing drift and load te IV (>600 V) 1A (>600 A)	MA (AC input and (No load to form)  6  etry points  n constant current emperature change	full load, consta	nt input voltag  5  e, the accuracy of re	4 eading back and	
Input adjustment rate  Load Regulation  Ripple effective value rms (3 Hz - 300 kHz)  Programming and read back a  Voltage output programming accuracy  Current output programming accuracy  Voltage setting resolution  Current setting resolution  Voltage output readback accuracy	mA mArms accuracy& Rated and monitor 0.001 Rated and management of the monitor of the moni	Ra  8  Rresolution  output voltage  output current 0.15  ( ≤60 V) ,0.01  ( ≤60 A) ,0.07  output voltage  output current 0.21  the influence of h	ted output curre 7  0.05%, Measure %+Rated output cur the influence of heat V (≤600 V) , 0.  IA (≤600 A) , 0.	rrent 0.01% +2n  nt 0.02% +5mA  6  ement at teleme rent 0.1% (When it ing drift and load te  IV (>600 V)  1A (>600 A)  nt current progran d temperature che	MA (AC input and (No load to form)  6  etry points In constant current emperature change	programming moderate)	nt input voltag  5  e, the accuracy of re	4 eading back and	
Input adjustment rate  Load Regulation  Ripple effective value rms (3 Hz - 300 kHz)  Programming and read back a  Voltage output programming accuracy  Current output programming accuracy  Voltage setting resolution  Current setting resolution  Voltage output readback accuracy  Current output readback accuracy	mA mA mArms  accuracy& Rated Rated monitor 0.001A Rated Rated include 0.0000	Ra  8  Rresolution  output voltage  putput current 0.15  ing does not include  ( ≤60 V) ,0.01  A (≤60 A) ,0.07  output voltage  output current 0.2°  the influence of r  01 V ( ≤ 10 V ),0	ted output curre 7  0.05%, Measure %+Rated output cur the influence of heat V (≤600 V), 0.  IA (≤600 A), 0.  0.05% % (When in constaleating drift and loa	rrent 0.01% +2n nt 0.02% +5mA 6 ement at teleme rent 0.1% (When in ing drift and load te IV (>600 V) 1A (>600 A) nt current program d temperature cha ), 0.001 V (100	mA (AC input and (No load to form)  (No load to form)  etry points  n constant current emperature change  mming mode, the lange rate)  V < U ≤ 1000 \	programming moderate)  accuracy of read	nt input voltag  5  e, the accuracy of re	4 eading back and	
Input adjustment rate  Load Regulation  Ripple effective value rms (3 Hz - 300 kHz)  Programming and read back a  Voltage output programming accuracy  Current output programming accuracy  Voltage setting resolution  Current setting resolution  /oltage output readback accuracy  Current output readback accuracy  /oltage read back resolution	mA mArms accuracy& Rated and monitor 0.001N 0.001A Rated and Rated and include 0.0000	Ra  8  Rresolution  output voltage  putput current 0.15  ing does not include  ( ≤60 V) ,0.01  A (≤60 A) ,0.07  output voltage  output current 0.2°  the influence of r  01 V ( ≤ 10 V ),0	ted output curre  7  0.05%, Measure %+Rated output cur e the influence of heat V (≤600 V), 0.  IA (≤600 A), 0.  0.05% % (When in constance a constance aring drift and loance of heat 0.0001 V (≤100 V)	rrent 0.01% +2n nt 0.02% +5mA 6 ement at teleme rent 0.1% (When in ing drift and load te IV (>600 V) 1A (>600 A) nt current program d temperature cha ), 0.001 V (100	mA (AC input and (No load to form)  (No load to form)  etry points  n constant current emperature change  mming mode, the lange rate)  V < U ≤ 1000 \	programming moderate)  accuracy of read	nt input voltag  5  e, the accuracy of re	4 eading back and	
Input adjustment rate  Load Regulation  Ripple effective value rms (3 Hz - 300 kHz)  Programming and read back a  Voltage output programming accuracy  Current output programming accuracy  Voltage setting resolution  Current setting resolution  //oltage output readback accuracy  Current output readback accuracy  //oltage read back resolution	mA mArms accuracy& Rated and monitor 0.001N 0.001A Rated and Rated and include 0.0000	Ra  8  Rresolution  output voltage  output current 0.15  ing does not include  ( ≤60 V) ,0.01  ( ≤60 A) ,0.07  output voltage  output current 0,2  the influence of r  01 V ( ≤ 10 V ),0  01 A ( ≤ 10 A ), (	ted output curre  7  0.05%, Measure %+Rated output cur e the influence of heat V (≤600 V), 0.  IA (≤600 A), 0.  0.05% % (When in constance a constance aring drift and loance of heat 0.0001 V (≤100 V)	rrent 0.01% +2n  nt 0.02% +5mA  6  ement at teleme rent 0,1% (When in ing drift and load te IV (>600 V)  1A (>600 A)  nt current program d temperature cha ), 0.001 V (100  A), 0.001 A (100	mA (AC input and (No load to find the find find find find find find find find	programming moderate)  accuracy of read  / ), 0.01 V ( > 10	nt input voltag  5  e, the accuracy of religion in the properties of the properties	4 eading back and nitoring does not	

## DC 1600W (20V-150V)

Models		HY-S 20-80	HY-S 30-53	HY-S 40-40	HY-S 60-26.7	HY-S 80-20	HY-S 100-16	HY-S 150-10.7	
Rated output voltage	V	20V	30V	40V	60V	80V	100V	150V	
output current	А	80A	53A	40A	26.7A	20A	16A	10.7A	
Rated output power	W	1.6kW	1.6kW	1.6kW	1.6kW	1.6kW	1.6kW	1.6kW	
Efficiency	%	86%	86%	88%	88%	88%	88%	88%	
CV Mode									
Settable output range	V	V 0-Rated output value							
Input adjustment rate	mV	mV Rated output voltage 0.01% +2mV (AC input 220 V ± 15%, constant load)							
Load regulation	mV	Rated output vol	tage 0.01% +2mV (1	No load to full load	l, constant input v	oltage, measurem	nent at remote com	pensation point)	
Telemetry maximum compensation voltage	V	V <30V財 2V; ≥30V財 8V; (Customizable according to demand)							
Ripple effective value rms ( 3 Hz - 300 kHz )	mVrms	7.5	6	7	7	7	8	8	
Noise peak to peak p-p ( 20 Hz - 20 MHz )	mVpp	60	50	60	60	75	75	75	
Output voltage rise time	ms	80	80	80	80	150	150	150	
Output voltage drop time (full load)	ms	50	80	80	80	150	150	150	
Output voltage drop time (no-load)	ms	800	900	1000	1100	1200	1500	2000	
Transient response time  CC Mode	ms	The time for the out of the rated value. C	tput voltage to recover t Dutput voltage setting ra	o within 0.5% of the range: 10-100%, local sa	ated voltage. The val ampling. Output mod	riation value of the o dels below 100V:<1m	utput current is betwe s, output models abo	en 10% and 90% ve 100V:<2ms.	
Settable output range				O Datad au	den de contro				
Input adjustment rate	A mA		Rated output cui	0-Rated ou	'	220 V + 15%	constant load)		
Load regulation	mA	Ra	ited output curre					e)	
Ripple effective value rms ( 3 Hz - 300 kHz )	mArms	120	60	65	60	40	20	15	
Programming and read back a	ccuracy8	resolution							
Voltage output programming accuracy	Rated	output voltage	0.05%, Measure	ement at teleme	etry points				
Current output programming accuracy	0.1% o readin	of output curren	t+0.1% of rated coring does not incl	output current ude the influence	(When in consta	int current progr and load temp	ramming mode, t erature change ra	he accuracy of ate)	
Voltage setting resolution	0.001\	/ (≤60 V) ,0.01	IV (≤600 V) , 0.	IV (>600 V)					
Current setting resolution	0.001	A (≤60 A) ,0.01	IA (≤600 A) , 0.	1A (>600 A)					
Voltage output readback accuracy	Rated	output voltage	0.05%						
Current output readback accuracy	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 read back resolution	0.000	01 V ( ≤ 10 V ),0	.0001 V ( ≤ 100 V	), 0.001 V ( 100	V < U ≤ 1000 \	/ ), 0.01 V ( > 10	000 V )		
Current read back resolution	0.000	O1 A ( ≤ 10 A ), (	0.0001 A ( ≤ 100 A	A), 0.001 A ( 100	) A < I ≤ 1000	A )			
Stability and temperature coef	ficient								
Temperature drift	U: 0.0	1% I: (	0.01% (After 30 r tempera	minutes of powe ture, 8 hours)	er on at a certa	ain input voltaç	ge and load am	bient	
Temperature coefficient	11. 50	opm/°C I: 7	70ppm/°C (After	-					

### DC 1600W (200V-600V)

Models		HY-S 200-8	HY-S 250-6.4	HY-S 300-5.3	HY-S 350-4.6	HY-S 400-4	HY-S 500-3.2	HY-S 600-2.
Rated output voltage	V	200V	250V	300V	350V	400V	500V	600V
output current	А	8A	6.4A	5.3A	4.6A	4A	3.2A	2.7A
Rated output power	W	1.6kW	1.6kW	1.6kW	1.6kW	1.6kW	1.6kW	1.6kW
Efficiency	%	88%	88%	88%	88%	88%	88%	88%
CV Mode								
Settable output range	V			0-Rated ou	ıtput value			
Input adjustment rate	mV		Rated output vol	ltage 0.01% +2r	mV (AC input a	220 V ± 15%,	constant load)	
Load regulation	mV	Rated output vol	tage 0.01% +2mV (1	No load to full load	d, constant input vo	oltage, measurem	nent at remote com	pensation point
Telemetry maximum compensation voltage	V			8V (Customiza	able according	to demand)		
Ripple effective value rms ( 3 Hz - 300 kHz )	mVrms	12	16	20	30	30	45	60
Noise peak to peak p-p ( 20 Hz - 20 MHz )	mVpp	90	110	130	190	190	250	300
Output voltage rise time	ms	150	150	150	180	180	210	250
Output voltage drop time (full load)	ms	150	150	150	180	180	210	250
Output voltage drop time (no-load)	ms	2100	2300	2500	3000	3000	3500	4000
Transient response time	ms		ne for the output vo t is between 10% a					
CC Mode		<u> </u>			<u> </u>			
CC Mode Settable output range	A	·		0-Rated ou	itput value			
	A mA		Rated output cui	0-Rated ou	'	220 V ± 15%,	constant load)	
Settable output range		Ra	Rated output cur	0-Rated ourrent 0.01% +2r	mA (AC input 2			e)
Settable output range Input adjustment rate Load regulation	mA	Ra 15	•	0-Rated ourrent 0.01% +2r	mA (AC input 2			e) 7
Settable output range Input adjustment rate	mA mA mArms	15	ted output curre	0-Rated ou rrent 0.01% +2r nt 0.02% +5mA	mA (AC input 2	ull load, const	ant input voltag	<u> </u>
Settable output range Input adjustment rate Load regulation Ripple effective value rms (3 Hz - 300 kHz)	mA mA mArms	15 Rresolution	ted output curre	0-Rated ou rrent 0.01% +2r nt 0.02% +5mA 15	mA (AC input 2 (No load to f	ull load, const	ant input voltag	<u> </u>
Settable output range Input adjustment rate Load regulation Ripple effective value rms (3 Hz - 300 kHz)  Programming and read back a	mA mA mArms accuracy& Rated	15  veresolution  output voltage of output curren	ted output currer	0-Rated ourrent 0.01% +2rnt 0.02% +5mA	mA (AC input 2 (No load to f	ull load, consta	ant input voltag	7
Settable output range Input adjustment rate Load regulation Ripple effective value rms (3 Hz - 300 kHz)  Programming and read back a Voltage output programming accuracy	mA mArms nccuracy& Rated 0.1% c reading	15 output voltage of output curren g back and monit	15  0.05%, Measure t+0.1% of rated c	0-Rated ourrent 0.01% +2rnt 0.02% +5mA	mA (AC input 2 (No load to f	ull load, consta	ant input voltag	7
Settable output range Input adjustment rate Load regulation Ripple effective value rms (3 Hz - 300 kHz)  Programming and read back a Voltage output programming accuracy Current output programming accuracy	mA mA mArms accuracy8 Rated 0.1% c reading	15  Aresolution  output voltage of output curren g back and monit  / (≤60 V) ,0.01	15 0.05%, Measure t+0.1% of rated coring does not incl	0-Rated ourrent 0.01% +2rnt 0.02% +5mA  15  ement at telement at t	mA (AC input 2 (No load to f	ull load, consta	ant input voltag	7
Settable output range Input adjustment rate Load regulation Ripple effective value rms (3 Hz - 300 kHz)  Programming and read back a Voltage output programming accuracy Current output programming accuracy Voltage setting resolution	mA mArms ccuracy8 Rated 0.1% creading 0.001\	15  Aresolution  output voltage of output curren g back and monit  / (≤60 V) ,0.01	ted output currents  15  0.05%, Measurents t+0.1% of rated coring does not included to the coring to the coring does of the coring to the cor	0-Rated ourrent 0.01% +2rnt 0.02% +5mA  15  ement at telement at t	mA (AC input 2 (No load to f	ull load, consta	ant input voltag	7
Settable output range Input adjustment rate Load regulation Ripple effective value rms (3 Hz - 300 kHz)  Programming and read back a Voltage output programming accuracy Current output programming accuracy Voltage setting resolution  Current setting resolution	mA mA mArms accuracy8 Rated 0.1% c readin 0.001/ 0.001/ Rated	15  Aresolution  output voltage of output curren g back and monit / (≤60 V) ,0.01  output voltage output current 0.2'	ted output currents  15  0.05%, Measurent+0.1% of rated coring does not include the c	0-Rated ourrent 0.01% +2rnt 0.02% +5mA  15  ement at teleme output current lude the influence liv ( > 600 V)  1A ( > 600 A)	mA (AC input 2 (No load to f 10 etry points (When in constate of heating drift	ull load, consta 10 nt current progrand load temper	ant input voltag  8  ramming mode, ti erature change ra	7 ne accuracy of te)
Settable output range Input adjustment rate Load regulation Ripple effective value rms (3 Hz - 300 kHz)  Programming and read back a Voltage output programming accuracy Current output programming accuracy Voltage setting resolution Current setting resolution Voltage output readback accuracy	mA mArms  Ccuracy8  Rated 0.1% creading 0.001/ 0.001/ Rated Rated include	utput voltage of output curren g back and monit ( ≤60 V) ,0.01  output voltage output current 0.2' the influence of h	15  0.05%, Measure t+0.1% of rated coring does not incl V (≤600 V) , 0.0  A (≤600 A) , 0.0	0-Rated ourrent 0.01% +2r nt 0.02% +5mA 15 ement at telement output current lude the influence 1V (>600 V) 1A (>600 A) nt current program d temperature characters.	MA (AC input 2 (No load to f 10 etry points (When in constate of heating drift	nt current progrand load temper	ant input voltag  8  Tamming mode, the reature change radius and more change radius back and more change radius ba	7 ne accuracy of te)
Settable output range Input adjustment rate Load regulation Ripple effective value rms (3 Hz - 300 kHz)  Programming and read back a Voltage output programming accuracy Current output programming accuracy Voltage setting resolution  Current setting resolution  Voltage output readback accuracy Current output readback accuracy	mA mA mArms  accuracy8 Rated 0.1% c readin 0.001/ 0.001/ Rated Rated include 0.0000	aresolution output voltage of output curren g back and monit ( ≤60 V) ,0.01 A (≤60 A) ,0.01 output voltage output current 0.2' the influence of h 01 V ( ≤ 10 V ),0	ted output currents  15  0.05%, Measurents t+0.1% of rated coring does not incl V (≤600 V), 0.0  A (≤600 A), 0.0  0.05% When in constants teating drift and loans	0-Rated ourrent 0.01% +2rnt 0.02% +5mA  15  ement at telement output current ude the influence liv ( > 600 V)  1A ( > 600 A)  Int current program d temperature characteristics of the current	mmA (AC input 2 (No load to form 10)  etry points (When in constate of heating drift)  mming mode, the lange rate)  V < U ≤ 1000 V	nt current progrand load temperature accuracy of reactive (7), 0.01 V (>10	ant input voltag  8  Tamming mode, the reature change radius and more change radius back and more change radius ba	7 ne accuracy of te)
Settable output range Input adjustment rate Load regulation Ripple effective value rms (3 Hz - 300 kHz)  Programming and read back a Voltage output programming accuracy Current output programming accuracy Voltage setting resolution  Current setting resolution  Voltage output readback accuracy Current output readback accuracy Voltage read back resolution	mA mA mArms Recuracy8 Rated 0.1% c reading 0.001\ 0.001A Rated Rated 0.0000 0.0000	aresolution output voltage of output curren g back and monit ( ≤60 V) ,0.01 A (≤60 A) ,0.01 output voltage output current 0.2' the influence of h 01 V ( ≤ 10 V ),0	15  0.05%, Measure t+0.1% of rated coring does not incl V (≤600 V) , 0.1 A (≤600 A) , 0.0.5% When in constall leating drift and loan.	0-Rated ourrent 0.01% +2rnt 0.02% +5mA  15  ement at telement output current ude the influence liv ( > 600 V)  1A ( > 600 A)  Int current program d temperature characteristics of the current	mmA (AC input 2 (No load to form 10)  etry points (When in constate of heating drift)  mming mode, the lange rate)  V < U ≤ 1000 V	nt current progrand load temperature accuracy of reactive (7), 0.01 V (>10	ant input voltag  8  Tamming mode, the reature change radius and more change radius back and more change radius ba	7 ne accuracy of te)
Settable output range Input adjustment rate Load regulation Ripple effective value rms (3 Hz - 300 kHz)  Programming and read back a Voltage output programming accuracy Current output programming accuracy Voltage setting resolution  Current setting resolution  Voltage output readback accuracy Current output readback accuracy Current output readback accuracy Current read back resolution  Current read back resolution	mA mA mArms Recuracy8 Rated 0.1% c reading 0.001\ 0.001A Rated Rated 0.0000 0.0000	aresolution output voltage of output curren g back and monit A (≤60 A) ,0.01 Output voltage output voltage output current 0.2' the influence of h 01 V (≤10 V),0 01 A (≤10 A), 0	15  0.05%, Measure (t+0.1% of rated coring does not incl V (≤600 V), 0.0  (A (≤600 A), 0.0  (B (≤600 A), 0.0  (C) (S) (S) (S) (S) (S) (S) (S) (S) (S) (S	0-Rated ourrent 0.01% +2r nt 0.02% +5mA  15  ement at teleme output current lude the influence IV (>600 V)  1A (>600 A)  nt current program d temperature cha ), 0.001 V (100 A), 0.001 A (100	mMA (AC input 2 (No load to form) 10 (No load to form) 10 (When in constate of heating drift) 10	nt current progrand load temperature accuracy of reactive (7), 0.01 V (>10 A)	ant input voltag  8  ramming mode, the terature change rading back and more than the terature change rading back and the terature change rad	7 ne accuracy of te) nitoring does no

### DC 2500W (20V-150V)

Models		HY-S 20-125	HY-S 30-83	HY-S 40-62.5	HY-S 60-41.7	HY-S 80-31	HY-S 100-25	HY-S 150-16
Rated output voltage	V	20V	30V	40V	60V	80V	100V	150V
Output current	А	125A	83A	62.5A	41.7A	31A	25A	16.7A
Rated output power	W	2.5kW	2.5kW	2.5kW	2.5kW	2.5kW	2.5kW	2.5kW
Efficiency	%	87%	87%	88%	88%	88%	88%	88%
CV Mode								
Settable output range	V			0-Rated ou	tput value			
Input adjustment rate	mV		Rated output vo	ltage 0.01% +2r	mV (AC input	220 V ± 15%,	constant load)	
Load regulation	mV	Rated output volt	age 0.015% +5mV (	No load to full load	d, constant input v	voltage, measurer	nent at remote cor	mpensation poi
Telemetry maximum compensation voltage	V		<30V时 2V	; ≥30V时 8V;	(Customizab	le according to	demand)	
Ripple effective value rms (3 Hz - 300 kHz)	mVrms	6	6	6	6	7	10	20
Noise peak to peak p-p (20 Hz - 20 MHz)	mVpp	50	55	55	60	60	70	90
Output voltage rise time	ms	15	15	20	30	40	40	60
Output voltage drop time (full load)	ms	20	20	20	30	50	50	80
Output voltage drop time (no-load)	ms	500	600	700	1100	1200	1500	2500
Transient response time	ms		utput voltage to recove					
CC Mode								
Settable output range	А			0-Rated ou	1			
Input adjustment rate	mA		Rated output cui	rrent 0.01% +2n	nA (AC input	220 V ± 15%,	constant load)	
Load regulation	mA	Ra	ted output curre	nt 0.02% +5mA	. (No load to f	full load, const	ant input voltag	e)
Ripple effective value rms (3 Hz - 300 kHz)	mArms	250	150	90	60	40	30	12
Programming and read back	accuracy	&resolution						
Voltage output programming accuracy	' Rated	output voltage	0.05%, Measure	ement at teleme	etry points			
Current output programming accuracy	, 0.1% o	of output curren	t+0.1% of rated o	output current (	(When in consta	int current progr	ramming mode, t	he accuracy c
Voltage setting resolution		J			or neuting unit	and load temp	eratare change re	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Current setting resolution	0.001V (<60 V) ,0.01V (<600 V) , 0.1V (>600 V)							
Voltage output readback accuracy	0.001A (<60 A) ,0.01A (<600 A) , 0.1A (>600 A)							
Current output readback accuracy	Rated output voltage 0.05%  Rated output current 0.2% (When in constant current programming mode, the accuracy of reading back and monitoring does not be constant current programming mode, the accuracy of reading back and monitoring does not be constant current programming mode, the							
,	include the influence of heating drift and load temperature change rate)							
Voltage read back resolution			.0001 V ( ≤ 100 V			*	JUU V )	
Current read back resolution		01 A ( ≤ 10 A ), (	0.0001 A ( ≤ 100 A	A), 0.001 A ( 100	) A < I ≤ 1000	A )		
Stability and temperature coe								
	U: 0.0	1% I: (	0.01% (After 30 r		er on at a certa	ain input voltag	ge and load am	bient
Temperature drift			tempera	ature, 8 hoùrs)				

### DC 2500W (200V-600V)

Models		HY-S 200-12.5	HY-S 250-10	HY-S 300-8.3	HY-S 350-7	HY-S 400-6.3	HY-S 500-5	HY-S 600-4				
Rated output voltage	V	200V	250V	300V	350V	400V	500V	600V				
Output current	А	12.5	10A	8.3A	7A	6.3A	5A	4.2A				
Rated output power	W	2.5kW	2.5kW	2.5kW	2.5kW	2.5kW	2.5kW	2.5kW				
Efficiency	%	88%	88%	88%	88%	88%	88%	88%				
CV Mode												
Settable output range	V			0-Rated ou	ıtput value							
Input adjustment rate	mV		Rated output vo	ltage 0.01% +2r	mV (AC input	220 V ± 15%,	constant load)					
Load regulation	mV	Rated output volta	age 0.015% +5mV (	No load to full load	d, constant input v	voltage, measuren	nent at remote cor	npensation poin				
Telemetry maximum compensation voltage	V			8V (Customiza	able according	to demand)						
Ripple effective value rms (3 Hz - 300 kHz)	mVrms	25	35	45	50	50	55	60				
Noise peak to peak p-p (20 Hz - 20 MHz)	mVpp	110	130	150	180	180	210	240				
Output voltage rise time	ms	65	70	80	85	85	90	100				
Output voltage drop time (full load)	ms	85	90	100	100	100	100	100				
Output voltage drop time (no-load)	ms	2500	2500	3000	3000	3000	3000	3000				
CC Mode												
Settable output range	А			0-Rated ou	itput value							
Input adjustment rate	mA		Rated output cu	rrent 0.01% +2r	mA (AC input	220 V ± 15%,	constant load)	mA Rated output current 0.01% +2mA (AC input 220 V ± 15%, constant load)				
Load regulation	mA	Ra	ted output curre	nt 0.02% +5mA	mA Rated output current 0.02% +5mA (No load to full load, constant input voltage)							
Ripple effective value rms ( 3 Hz - 300 kHz )	mArms	11	4.0			,	ant input voltag	e)				
Programming and read back a		11	10	10	8	8	ant input voltag 7	e) 5				
J	ccuracy&		10	10	8		, j	<u> </u>				
Voltage output programming accuracy		uresolution	10 0.05%, Measure				, j	<u> </u>				
	Rated	uresolution output voltage	0.05%, Measure	ement at teleme	etry points	8	7	5				
Voltage output programming accuracy	Rated 0.1% c reading	uresolution output voltage of output curren g back and monit	0.05%, Measure t+0.1% of rated coring does not inc	ement at teleme output current i lude the influence	etry points	8	7	5				
Voltage output programming accuracy  Current output programming accuracy	Rated 0.1% c reading	output voltage of output curren g back and monit / (≤60 V) ,0.01	0.05%, Measure t+0.1% of rated oring does not inc V (≤600 V), 0.	ement at teleme output current I lude the influence IV (>600 V)	etry points	8	7	5				
Voltage output programming accuracy Current output programming accuracy Voltage setting resolution Current setting resolution	Rated 0.1% c reading 0.001V 0.001A	output voltage of output curren g back and monit / (≤60 V) ,0.01	0.05%, Measure t+0.1% of rated oring does not inc V (≤600 V), 0. A (≤600 A), 0.	ement at teleme output current I lude the influence IV (>600 V)	etry points	8	7	5				
Voltage output programming accuracy Current output programming accuracy Voltage setting resolution Current setting resolution Voltage output readback accuracy	Rated 0.1% c reading 0.001N 0.001A Rated Rated	output voltage of output curren g back and monit / (≤60 V) ,0.01 A (≤60 A) ,0.01 output voltage output current 0.29	0.05%, Measure t+0.1% of rated oring does not inc V (≤600 V), 0.  A (≤600 A), 0.  0.05%  We (When in consta	ement at teleme output current lude the influence IV (>600 V) 1A (>600 A)	etry points (When in consta e of heating drift	Int current progr	7 amming mode, ti erature change ra	5 he accuracy of				
Voltage output programming accuracy Current output programming accuracy Voltage setting resolution Current setting resolution Voltage output readback accuracy Current output readback accuracy	Rated 0.1% c reading 0.001v 0.001A Rated Rated include	output voltage of output curren g back and monit ( ≤60 V) ,0.01 A (≤60 A) ,0.01 output voltage output current 0.25 the influence of h	0.05%, Measure t+0.1% of rated oring does not inc V (≤600 V), 0. A (≤600 A), 0. 0.05% % (When in constaleating drift and loa	ement at teleme putput current lude the influence IV (>600 V) 1A (>600 A) Int current program d temperature cha	etry points (When in constate of heating drift) mming mode, the ange rate)	int current progr and load tempe	amming mode, ti erature change ra	5 he accuracy of tte)				
Voltage output programming accuracy Current output programming accuracy Voltage setting resolution Current setting resolution Voltage output readback accuracy Current output readback accuracy Voltage read back resolution	Rated 0.1% c reading 0.001A 0.001A Rated Rated include 0.0000	output voltage of output curren g back and monit  / (≤60 V) ,0.01  A (≤60 A) ,0.01  output voltage output current 0.25 the influence of h 01 V (≤ 10 V),0.	0.05%, Measure t+0.1% of rated oring does not inc V (≤600 V), 0.  A (≤600 A), 0.  0.05%  (When in constate atting drift and loan 0001 V (≤100 V)	ement at teleme putput current lude the influence IV (>600 V) 1A (>600 A) Int current program d temperature cha	etry points  (When in constate of heating drift)  mming mode, the lange rate)  V < U ≤ 1000 \	and load temper and load temper and load temper and load temper accuracy of reactive (/), 0.01 V (>10	amming mode, ti erature change ra	5 he accuracy of				
Voltage output programming accuracy Current output programming accuracy Voltage setting resolution Current setting resolution Voltage output readback accuracy Current output readback accuracy Voltage read back resolution Current read back resolution	Rated 0.1% c reading 0.001\( \text{Position} \) 0.001\( \text{Position} \) 0.001\( \text{Position} \) Rated \( \text{Rated c include} \) 0.0000 0.0000	output voltage of output curren g back and monit  / (≤60 V) ,0.01  A (≤60 A) ,0.01  output voltage output current 0.25 the influence of h 01 V (≤ 10 V),0.	0.05%, Measure t+0.1% of rated oring does not inc V (≤600 V), 0. A (≤600 A), 0. 0.05% % (When in constaleating drift and loa	ement at teleme putput current lude the influence IV (>600 V) 1A (>600 A) Int current program d temperature cha	etry points  (When in constate of heating drift)  mming mode, the large rate)  V < U ≤ 1000 \	and load temper and load temper and load temper and load temper accuracy of reactive (/), 0.01 V (>10	amming mode, ti erature change ra	5 he accuracy of				
Voltage output programming accuracy Current output programming accuracy Voltage setting resolution Current setting resolution Voltage output readback accuracy Current output readback accuracy Voltage read back resolution Current read back resolution	Rated 0.1% creading 0.001\(\text{\mathcal{A}}\) 0.001\(\text{\mathcal{A}}\) Rated Rated circlude 0.0000 0.0000	output voltage of output curren g back and monit / (≤60 V) ,0.01 A (≤60 A) ,0.01 output voltage output current 0.25 the influence of h 01 V (≤10 V),0.0 01 A (≤10 A), 0	0.05%, Measure t+0.1% of rated c oring does not inc V (≤600 V) , 0: A (≤600 A) , 0. 0.05% % (When in consta eating drift and loa 0001 V (≤100 V)	ement at teleme putput current lude the influence IV (>600 V)  1A (>600 A)  Int current program d temperature chain, 0.001 V (100 A), 0.001 A (100 A)	etry points  (When in constate of heating drift)  mming mode, the ange rate)  V < U ≤ 1000 \  O A < I ≤ 1000	ant current programmer and load temper and load temper accuracy of reaction ( ), 0.01 V ( > 10 A )	7  amming mode, ti erature change ra	he accuracy of tee)				
Voltage output programming accuracy  Current output programming accuracy  Voltage setting resolution	Rated 0.1% c reading 0.001\( \text{Position} \) 0.001\( \text{Position} \) 0.001\( \text{Position} \) Rated \( \text{Rated c include} \) 0.0000 0.0000	output voltage of output curren g back and monit / (≤60 V) ,0.01 A (≤60 A) ,0.01 output voltage output current 0.25 the influence of h 01 V (≤10 V),0.01 D1 A (≤10 A), 0	0.05%, Measure t+0.1% of rated c oring does not inc V (≤600 V) , 0. A (≤600 A) , 0. 0.05% % (When in constate eating drift and loa 0001 V (≤100 V) 0.0001 A (≤100 V) 0.001% (After 30 m)	ement at teleme putput current lude the influence IV (>600 V)  1A (>600 A)  Int current program d temperature chain, 0.001 V (100 A), 0.001 A (100 A)	etry points  (When in constate of heating drift)  mming mode, the ange rate)  V < U ≤ 1000 \  O A < I ≤ 1000	ant current programmer and load temper and load temper accuracy of reaction ( ), 0.01 V ( > 10 A )	7  amming mode, ti erature change ra	he accuracy of tee)				

## DC 3600W (20V-150V)

Models		HY-S 20-180	HY-S 30-120	HY-S 40-90	HY-S 60-60	HY-S 80-45	HY-S 100-36	HY-S 150-24
Rated output voltage	V	20	30	40	60	80	100	150
Output current	А	180	120	90	60	45	36	24
Rated output power	W	3600	3600	3600	3600	3600	3600	3600
Efficiency	%	83	86	86	88	88	88	87
CV Mode								
Settable output range	V			0-Rated ou	ıtput value			
Input adjustment rate	mV		Rated output vo	ltage 0.01% +2r	mV (AC input	220 V ± 15%,	constant load)	
Load regulation	mV	Rated output volt	age 0.015% +5mV (	No load to full loa	d, constant input	voltage, measurer	ment at remote cor	mpensation point)
Telemetry maximum compensation voltage	V		<30V时 2V	; ≥30V时 8V;	(Customizab	le according to	o demand)	
Ripple effective value rms ( 3 Hz - 300 kHz )	mVrms	7	7	7	7	20	25	20
Noise peak to peak p-p (20 Hz - 20 MHz)	mVpp	55	55	55	60	70	100	100
Output voltage rise time	ms	80	80	80	150	150	150	150
Output voltage drop time (full load)	ms	100	160	160	160	300	300	300
Output voltage drop time (no-load)	ms	800	900	1000	1100	1200	1500	2000
Transient response time	ms	The time for the output voltage to recover to within 0.5% of the rated voltage. The variation value of the output current is between 10% and 90% of the rated value. Output voltage setting range: 10-100%, local sampling. Output models below 100V:<1ms, output models above 100V:<2ms.					between 10% and above 100V:<2ms.	
CC Mode								
Settable output range	А			0-Rated ou	ıtput value			
Input adjustment rate	mA		Rated output cu	rrent 0.01% +2r	mA (AC input	220 V ± 15%,	constant load)	
Load regulation	mA	Ra	ted output curre	nt 0.02% +5mA	(No load to	full load, const	ant input voltag	e)
Ripple effective value rms ( 3 Hz - 300 kHz )	mArms	300	250	150	70	60	50	40
Programming and read back ac	ccuracy&ı	resolution						
Voltage output programming accuracy	Rated	output voltage	0.05%, Measure	ement at teleme	etry points			
Current output programming accuracy	0.1% of output current+0.1% of rated output current (When in constant current programming mode, the accuracy or reading back and monitoring does not include the influence of heating drift and load temperature change rate)					he accuracy of ate)		
Voltage setting resolution	0.001V (≤60 V) ,0.01V (≤600 V) , 0.1V (>600 V)							
Current setting resolution	0.001A (≤60 A) ,0.01A (≤600 A) , 0.1A (>600 A)							
Voltage output readback accuracy	Rated	output voltage	0.05%					
Current output readback accuracy			% (When in consta			e accuracy of rea	ding back and mo	nitoring does not
Voltage read back resolution			.0001 V ( ≤ 100 V			V ), 0.01 V ( > 10	000 V )	
Current read back resolution	0.000	O1 A ( ≤ 10 A ), (	0.0001 A ( ≤ 100 A	A), 0.001 A ( 100	0 A < I ≤ 1000	A )		
Stability and temperature coeff	icient							
Temperature drift	U: 0.0	1% I: (	0.01% (After 30 r temperat	minutes of pow are, 8 hours)	er on at a cert	ain input volta	ge and load am	bient
Temperature coefficient	U: 50	ppm/°C I:	70ppm/°C (Afte		power on)			

### DC 3600W (200V-600V)

Models		HY-S 200-18	HY-S 250-14.4	HY-S 300-12	HY-S 350-10.3	HY-S 400-9	HY-S 500-7.2	HY-S 600-6
Rated output voltage	V	200V	250V	300V	350V	400V	500V	600V
Output current	А	18A	14.4A	12A	10.3A	9A	7.2A	6A
Rated output power	W	3.6kW	3.6kW	3.6kW	3.6kW	3.6kW	3.6kW	3.6kW
Efficiency	%	87%	87%	87%	87%	87%	87%	87%
CV Mode								
Settable output range	V			0-Rated ou	utput value			
Input adjustment rate	mV		Rated output vo	ltage 0.01% +2i	mV (AC input 2	220 V ± 15%,	constant load)	
Load regulation	mV	Rated output volt	age 0.015% +5mV (	No load to full loa	d, constant input v	oltage, measurer	ment at remote cor	npensation point)
Telemetry maximum compensation voltage	V			8V (Customiz	able according	to demand)		
Ripple effective value rms ( 3 Hz - 300 kHz )	mVrms	70	75	80	80	80	80	80
Noise peak to peak p-p ( 20 Hz - 20 MHz )	mVpp	275	280	300	220	220	330	350
Output voltage rise time	ms	200	200	200	200	200	250	250
Output voltage drop time (full load)	ms	300	300	300	400	400	450	500
Output voltage drop time (no-load)	ms	3000	3300	3500	3600	3600	3800	4000
Transient response time	ms		he time for the outprent is between 10%					
CC Mode								
Settable output range	А			0-Rated ou	ıtput value			
Input adjustment rate	mA		Rated output cu	rrent 0.01% +2r	mA (AC input 2	220 V ± 15%,	constant load)	
Load regulation	mA	Ra	ited output curre	nt 0.02% +5mA	(No load to f	ull load, const	ant input voltag	e)
Ripple effective value rms ( 3 Hz - 300 kHz )	mArms	30	24	15	12	12	10	8
Programming and read back ac	curacy&r	esolution						
Voltage output programming accuracy	Rated	output voltage	0.05%, Measure	ement at telem	etry points			
Current output programming accuracy	0.1% o	of output currer g back and monit	nt+0.1% of rated of toring does not inc	output current lude the influenc	(When in constar e of heating drift	nt current progr and load temp	ramming mode, t erature change ra	he accuracy of ate)
Voltage setting resolution	0.001\	0.001V (≤60 V) ,0.01V (≤600 V) , 0.1V (>600 V)						
Current setting resolution	0.001	A (≤60 A) ,0.0°	1A (≤600 A) , 0.	1A (>600 A)				
Voltage output readback accuracy	Rated	output voltage	0.05%					
Current output readback accuracy			% (When in consta			accuracy of rea	ding back and mo	nitoring does not
Voltage read back resolution			.0001 V ( ≤ 100 V	· ·		' ), 0.01 V ( > 10	000 V )	
Current read back resolution	0.000	O1 A ( ≤ 10 A ), (	0.0001 A ( ≤ 100 A	A), 0.001 A (10	0 A < I ≤ 1000 A	A )		
Stability and temperature coeffi	icient							
Temperature drift	U: 0.0	1% I: (	0.01% (After 30 r temperati	minutes of pow ure, 8 hours)	er on at a certa	in input volta	ge and load am	bient
Temperature coefficient	U: 50p	ppm/°C I: 7	70ppm/°C (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	0°C to 50°C, optional-10°C to 50°C, -20°C to 50°C, -40°C to 50°C
Storage environment temperature	-20°C to 65°C,
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 °C 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

### **Control Panel**

Monitor	Display
Control function	Shuttle knob adjustment, output ON/OFF switch Vset, Iset, Output buttons

## **Input Power Supply**

Frequency	47 Hz - 63 Hz
Connection	Single phase two wire+ground wire,220 V ± 15%
Power factor (typical value)	0.99

## **Appearance&Size Outline Dimension**

### **Control Panel**



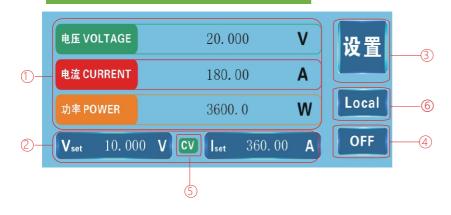
- Power input circuit breaker
- ② Vent
- 3 LCD Display (touch screen)
- 4 Voltage/current setting key
- Shuttle adjustment knob
- 6 Chassis handle
- CC/CVPriority can be set
- Output key
- 9 19 inch standard rack mounting holes

### **Rear Panel**



- Output copper bar
- ② DC output terminal protective cover
- 3 Heat dissipation air outlet
- 4 Remote compensation measurement terminal
- ⑤ USB communication interface
- 6 Digital I/O communication interface
- 7 RS-485 & RS-232 communication interface
- AC input terminal

### **Display Interface**



- ① Voltage/current/power read back display area
- ② Voltage/current setting value
- ③ set up
- 4 close button
- ⑤ CV/CC state
- 6 Local

## Cooperative Clients (Partial)

#### **Power Semiconductor Customers**



Changchun Guoke







Shanghai Huinengtai

Semiconductor



Yuexin Technology Wishing to create technology



Group core microelectronics



irstack

Electrical industry

Semight **INSTRUMENTS** 

Microelectronics

◇厨宇佳

Shanghai Zhanxin



·D卓讯达科技

Hangzhou Zhongsi

Feishide

Suzhou Lianxun Instrument

Weiyujia Semiconductor

Semiconductor

Chengxin Technology Zhuoxinda Technology

### Enterprises In The Field Of Automotive Electronics













Red Banner



SAIC Group



SAIC Volkswagen



**GEELY** 







Xiaomi Automobile





value



polary



Lantu Automobile



Inovance



HAOMO.AI



MKLtech



Shanghai Tongmin Vehicle



Ningde Era



Human Horizons



Hezhong New Energy

### High Tech R&D Enterprises



Huawei









**EPCOS** 



TYCO





Panasonic





Honeywell



Nader



**FARATRONIC** 







Schneider



NOSRK



HONGFA

















CRRC



US PI

**FLUKE** 



Gree



Guilin Rubber















Shanghai Electric New Thunder Energy



HILTI

**BOSCH** 

**BOSCH** 

linde

NARI-TECHNOLOGY



#### Aerospace and National Defense Military Industry Research Institute





**CASIC** 











china aerospace

aviation industry

Aerospace

**CETC** 

CSSC

**CSIC** 

CASC 800 institute	(Shanghai Aerospace Precision Machinery )
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) AVIC 607 institute (China Leihua Electronic Technology)

CASIC 307 factory (Aerosun Corporation) CASIC 33 institute (Institute 33 of Aerospace Science and)

CASIC 3651 factory (Guizhou Aerospace Linquan Motor Co., Ltd)

AVIC 603 institute (  $_{\rm Research\,Institute}^{\rm AVIC}$  Xi'an Aircraft Design and )

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)

On) AVIC 618 institute ( Xi'an Automatic Flight Research Institute ) of China Radio Aviation Research Institute ) AVIC 631 institute ( AVIC Aerospace Computing Technology) CETC 38 institute ( East China Electronic Engineering )

AVIC 105 factory (Tianjin Aviation Electromechanical Co., Ltd) CETC 50 institute (Shanghai Microwave Technology)

AVIC 115 factory (Shaanxi Aviation Electric Co., Ltd)

AVIC 181 factory (Wuhan Aviation Instrument Co., Ltd)

CASIC 206 institute (Beijing Institute of Mechanical Equipment) AVIC 304 institute (Beijing Great Wall Metrology and Testing ) CSIC 7107 institute (Shaanxi Aerospace Navigation )

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 )

CETC 51 institute ( Shanghai Microwave Equipment )

AVIC 118 factory (Shanghai Aviation Electrical Appliances Co., Ltd.) 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 719 institute (  $^{\mbox{Wuhan Second Ship Design and}}_{\mbox{Research Institute}}$  )

CSIC 704 institute (  $^{\rm Shanghai}_{\rm Research}$  Institute )

CSIC 726 institute (  $_{\rm Equipment}^{\rm Shanghai\ Institute\ of\ Ship\ Electronic}$  )

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)







#### 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







### **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**







Guangzhou Aircraft Maintenance Engineering Co., Ltd



Rockwell Collins



Beijing Aircraft Maintenance Engineering Co., Ltd

#### Military Academies And Local Universities



national university of



Aerospace defense technology Engineering University



Army Engineering University



air force engineering university



naval university of engineering



Dalian Naval Academy



Naval Aviation



Beihang University



Beijing Institute



Harbin Institute



Harbin Engineering



Nanjing University of Aeronautics and Astronautics



Nanjing University of Science and Technology



Northwestern Polytechnical University



Technology of China



Tsinghua



Peking



Shanghai Jiaotong University



Zhejiang University



Tianjin University



Huazhong University of Science and Technology



Electronic Science



Shanghai University



Beijing University of Technology



Shanghai Maritime University





Dalian Maritime University



University of Technology



Huazhong University of Science and Technology





Xi'an Jiaotong



Sichuan University



donghua university



north china institute of



Fudan



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

2009 Establishing Shanghai Ouzu Electronics Brand Successfully delivered 400kVA high-power AC power supply 2010 Hangyu Power Supply was established and officially put into operation 2011 as a three-phase precision AC power supply and militaryUsing a gyroscope to test the power supply, replacing Russian made products Formal production of programmable variable frequency power 2012 supply and AC constant current source Formal production of programmable AC/DC power supply and 2013 HY-AE excitation power supply Formal production of high-power bipolar testing power supply 2014 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 HY-CTL/CTS capacitor testing high-frequency high current testing 2018 power supply And successfully delivered 100kHz, 100Arms 2019 Official production of high-speed power supply for automotive electronic testing within 500kHz 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



