



Hangyu Power System (Shanghai) Co., Ltd.

HY-PMSU Series

Programmable Multi-Function DC Power Supply



High Precision High Power Density

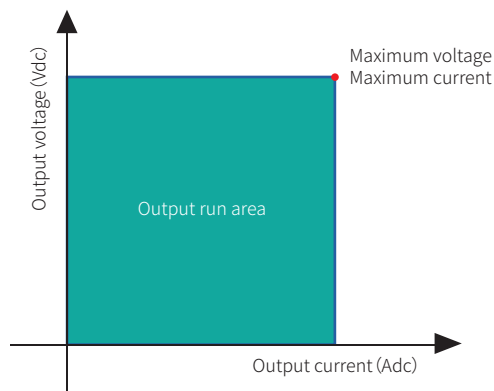
Military quality power supply expert
To provide customers with accurate, intelligent and convenient test
power supply solutions



HY-PMSU Series Programmable Multi-Function DC Power Supply



High performance, High precision, High power density



HY-PMSU series programmable multifunctional DC power supply, with rich models, powerful functions and wide applications, has played an important role in the field of power semiconductors, low-voltage electrical appliances, power electronics, test and measurement.

Product Features

- Single machine output voltage: 0-1500V
- Single machine output current: 0-1500A, the maximum parallel can reach 45kA
- Master/slave parallel can be extended to 450kW
- High power density: Single machine 5kW / 2U, 15kW / 3U
- Input standard PFC, power factor up to 0.99
- 16-bit D/A high precision converter, accurate output
- 20-bit A/D high precision converter, more accurate read back

Application Field

This power supply is widely used, rich models, suitable for the following fields of electronic system overcurrent, operating characteristics, aging, voltage resistance, temperature rise, power supply and other purposes.

- Low voltage electrical apparatus test
- Power semiconductor test
- Power electronics test
- Scientific research test
- Aerospace
- Defense military industry
- Automotive electronic testing
- Smart grid

Product Model Naming Rules

Product Series	Output Voltage	Output Current	Choose And Buy Function	Choose And Buy Function
HY-PMSU	10	- 100	- CF	- HR : High resolution/precision - T1 : Operating temperature -10°C to 50°C - T2 : Operating temperature -20°C to 50°C - T4 : Operating temperature -40°C to 50°C - CF :User defined features (please specify when ordering)
Product model: HY-PMSU 10-100-CF The model information is: output voltage 0-10V, output current 0-100A Custom features that users choose to purchase				

Communication protocol	Standard Communication Interface	Optional Communication Interface
Modbus	RS-485	- LAN :Ethernet communicationinterface
SCPI	RS-232	- CAN :CAN communication interface
	Digital I/O	- 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-PMSU Series Product Selection Table

HY-PMSU Series Product Model Selection And Parameters

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

1kW Series Power Supply Model Selection (The following models are 2U models)

Models	Output Voltage	Output Current	Output Power
HY-PMSU 10-100	10V	100A	1kW
HY-PMSU 20-50	20V	50A	1kW
HY-PMSU 30-34	30V	34A	1kW
HY-PMSU 40-25	40V	25A	1kW
HY-PMSU 60-17	60V	17A	1kW
HY-PMSU 80-12.5	80V	12.5A	1kW
HY-PMSU 100-10	100V	10A	1kW
HY-PMSU 150-6.7	150V	6.7A	1kW
HY-PMSU 200-5	200V	5A	1kW
HY-PMSU 250-4	250V	4A	1kW

Models	Output Voltage	Output Current	Output Power
HY-PMSU 300-3.4	300V	3.4A	1kW
HY-PMSU 350-3	350V	3A	1kW
HY-PMSU 400-2.5	400V	2.5A	1kW
HY-PMSU 500-2	500V	2A	1kW
HY-PMSU 600-1.7	600V	1.7A	1kW
HY-PMSU 800-1.3	800V	1.3A	1kW
HY-PMSU 1000-1	1000V	1A	1kW
HY-PMSU 1200-0.9	1200V	0.9A	1kW
HY-PMSU 1500-0.7	1500V	0.7A	1kW

1.6kW Series Power Supply Model Selection (The following models are 2U models)

Models	Output Voltage	Output Current	Output Power
HY-PMSU 10-160	10V	160A	1.6kW
HY-PMSU 20-80	20V	80A	1.6kW
HY-PMSU 30-54	30V	54A	1.6kW
HY-PMSU 40-40	40V	40A	1.6kW
HY-PMSU 60-26.7	60V	26.7A	1.6kW
HY-PMSU 80-20	80V	20A	1.6kW
HY-PMSU 100-16	100V	16A	1.6kW
HY-PMSU 150-10.7	150V	10.7A	1.6kW
HY-PMSU 200-8	200V	8A	1.6kW
HY-PMSU 250-6.4	250V	6.4A	1.6kW

Models	Output Voltage	Output Current	Output Power
HY-PMSU 300-5.4	300V	5.4A	1.6kW
HY-PMSU 350-4.6	350V	4.6A	1.6kW
HY-PMSU 400-4	400V	4A	1.6kW
HY-PMSU 500-3.2	500V	3.2A	1.6kW
HY-PMSU 600-2.7	600V	2.7A	1.6kW
HY-PMSU 800-2	800V	2A	1.6kW
HY-PMSU 1000-1.6	1000V	1.6A	1.6kW
HY-PMSU 1200-1.4	1200V	1.4A	1.6kW
HY-PMSU 1500-1.1	1500V	1.1A	1.6kW

2.5kW Series Power Supply Model Selection (The following models are 2U models)

Models	Output Voltage	Output Current	Output Power
HY-PMSU 10-250	10V	250A	2.5kW
HY-PMSU 20-125	20V	125A	2.5kW
HY-PMSU 30-84	30V	84A	2.5kW
HY-PMSU 40-62.5	40V	62.5A	2.5kW
HY-PMSU 60-41.7	60V	41.7A	2.5kW
HY-PMSU 80-32	80V	32A	2.5kW
HY-PMSU 100-25	100V	25A	2.5kW
HY-PMSU 150-16.7	150V	16.7A	2.5kW
HY-PMSU 200-12.5	200V	12.5A	2.5kW
HY-PMSU 250-10	250V	10A	2.5kW

Models	Output Voltage	Output Current	Output Power
HY-PMSU 300-8.4	300V	8.4A	2.5kW
HY-PMSU 350-7.2	350V	7.2A	2.5kW
HY-PMSU 400-6.3	400V	6.3A	2.5kW
HY-PMSU 500-5	500V	5A	2.5kW
HY-PMSU 600-4.2	600V	4.2A	2.5kW
HY-PMSU 800-3.2	800V	3.2A	2.5kW
HY-PMSU 1000-2.5	1000V	2.5A	2.5kW
HY-PMSU 1200-2.1	1200V	2.1A	2.5kW
HY-PMSU 1500-1.7	1500V	1.7A	2.5kW

HY-PMSU Series Product Selection Table

3.6kW Series Power Supply Model Selection (The following models are 2U models)

Models	Output Voltage	Output Current	Output Power
HY-PMSU 10-360	10V	360A	3.6kW
HY-PMSU 20-180	20V	180A	3.6kW
HY-PMSU 30-120	30V	120A	3.6kW
HY-PMSU 40-90	40V	90A	3.6kW
HY-PMSU 60-60	60V	60A	3.6kW
HY-PMSU 80-45	80V	45A	3.6kW
HY-PMSU 100-36	100V	36A	3.6kW
HY-PMSU 150-24	150V	24A	3.6kW
HY-PMSU 200-18	200V	18A	3.6kW
HY-PMSU 250-14.4	250V	14.4A	3.6kW

Models	Output Voltage	Output Current	Output Power
HY-PMSU 300-12	300V	12A	3.6kW
HY-PMSU 350-10.3	350V	10.3A	3.6kW
HY-PMSU 400-9	400V	9A	3.6kW
HY-PMSU 500-7.2	500V	7.2A	3.6kW
HY-PMSU 600-6	600V	6A	3.6kW
HY-PMSU 800-4.5	800V	4.5A	3.6kW
HY-PMSU 1000-3.6	1000V	3.6A	3.6kW
HY-PMSU 1200-3	1200V	3A	3.6kW
HY-PMSU 1500-2.4	1500V	2.4A	3.6kW

5kW Series Power Supply Model Selection (The following models are 2U models)

Models	Output Voltage	Output Current	Output Power
HY-PMSU 10-530	10V	530A	5kW
HY-PMSU 20-250	20V	250A	5kW
HY-PMSU 30-170	30V	170A	5kW
HY-PMSU 40-125	40V	125A	5kW
HY-PMSU 60-85	60V	85A	5kW
HY-PMSU 80-62.5	80V	62.5A	5kW
HY-PMSU 100-50	100V	50A	5kW
HY-PMSU 150-34	150V	34A	5kW
HY-PMSU 200-25	200V	25A	5kW
HY-PMSU 250-20	250V	20A	5kW

Models	Output Voltage	Output Current	Output Power
HY-PMSU 300-17	300V	17A	5kW
HY-PMSU 350-14.3	350V	14.3A	5kW
HY-PMSU 400-12.5	400V	12.5A	5kW
HY-PMSU 500-10	500V	10A	5kW
HY-PMSU 600-8.5	600V	8.5A	5kW
HY-PMSU 800-6.3	800V	6.3A	5kW
HY-PMSU 1000-5	1000V	5A	5kW
HY-PMSU 1200-4.2	1200V	4.2A	5kW
HY-PMSU 1500-3.4	1500V	3.4A	5kW

10kW Series Power Supply Model Selection (The following models are 3U models)

Models	Output Voltage	Output Current	Output Power
HY-PMSU 10-1040	10V	1040A	10kW
HY-PMSU 20-500	20V	500A	10kW
HY-PMSU 30-334	30V	334A	10kW
HY-PMSU 40-250	40V	250A	10kW
HY-PMSU 60-167	60V	167A	10kW
HY-PMSU 80-125	80V	125A	10kW
HY-PMSU 100-100	100V	100A	10kW
HY-PMSU 150-67	150V	67A	10kW

Models	Output Voltage	Output Current	Output Power
HY-PMSU 200-50	200V	50A	10kW
HY-PMSU 250-40	250V	40A	10kW
HY-PMSU 300-33.5	300V	33.5A	10kW
HY-PMSU 350-28.6	350V	28.6A	10kW
HY-PMSU 400-25	400V	25A	10kW
HY-PMSU 500-20	500V	20A	10kW
HY-PMSU 600-16.7	600V	16.7A	10kW
HY-PMSU 800-12.5	800V	12.5A	10kW
HY-PMSU 1000-10	1000V	10A	10kW

HY-PMSU Series Product Selection Table

15kW Series Power Supply Model Selection (The following models are 3U models)

Models	Output Voltage	Output Current	Output Power
HY-PMSU 10-1500	10V	1500A	15kW
HY-PMSU 20-750	20V	750A	15kW
HY-PMSU 30-500	30V	500A	15kW
HY-PMSU 40-375	40V	375A	15kW
HY-PMSU 60-250	60V	250A	15kW
HY-PMSU 80-187.5	80V	187.5A	15kW
HY-PMSU 100-150	100V	150A	15kW
HY-PMSU 150-100	150V	100A	15kW

Models	Output Voltage	Output Current	Output Power
HY-PMSU 200-75	200V	75A	15kW
HY-PMSU 250-60	250V	60A	15kW
HY-PMSU 300-50	300V	50A	15kW
HY-PMSU 350-43	350V	43A	15kW
HY-PMSU 400-37.5	400V	37.5A	15kW
HY-PMSU 500-30	500V	30A	15kW
HY-PMSU 600-25	600V	25A	15kW
HY-PMSU 800-18.8	800V	18.8A	15kW
HY-PMSU 1000-15	1000V	15A	15kW

HY-PMSU Series Technical Parameters

DC 1000W (10V-100V)

Models		HY-PMSU 10-100	HY-PMSU 20-50	HY-PMSU 30-34	HY-PMSU 40-25	HY-PMSU 60-17	HY-PMSU 80-12.5	HY-PMSU 100-10
Rated Output Voltage	V	10	20	30	40	60	80	100
Rated Output Current	A	100	50	34	25	17	12.5	10
Rated Output Power	W	1000	1000	1000	1000	1000	1000	1000
Efficiency	%	88	89	85	87	87	87	87
Constant Pressure Mode (CV Mode)								
Output Range Can Be Set	V	0- Rated output value						
Input Adjustment Rate	mV	0.01%+2mV of rated output voltage (AC input 220V ± 15%, constant load)						
Load Adjustment Rate	mV	0.01%+2mV of rated output voltage (no-load to full load, constant input voltage, measured at remote compensation point)						
Maximum Compensation Voltage For Telemetry	V	<30V 2V;≥30V 8V; (Can be customized according to demand)						
Ripple Effective Value rms (3Hz-300kHz)	mVrms	6	6	6	7	7	7	8
Noise Peak-To-Peak Value p-p (20Hz-20MHz)	mVpp	50	50	50	60	60	75	75
Output Voltage Rise Time 10-90%	ms	35	35	80	80	80	150	150
Output Voltage Drop Time (Full Load)90-10%	ms	20	30	80	80	80	150	150
Output Voltage Drop Time (No Load)	ms	500	700	900	1000	1100	1200	1500
Transient Response Time	ms	The time when the output voltage is restored to within 0.5% of the rated voltage. The variation of the output current is 10-90% of the rated value.Output voltage setting range: 10-100%, local sampling. Output models below 100V: <1ms, output models greater than 100V: <2ms.						
Constant Current Mode (CC Mode)								
Output Range Can Be Set	A	0- Rated output value						
Input Adjustment Rate	mA	0.01%+2mA of rated output current (AC input 220V ± 15%, constant load)						
Load Adjustment Rate	mA	0.02%+5mA of rated output current (no-load to full load, constant input voltage)						
Ripple Effective Value rms (3Hz-300kHz)	mArms	50	50	45	30	15	10	10

DC 1000W (150V-500V)

Models		HY-PMSU 150-6.7	HY-PMSU 200-5	HY-PMSU 250-4	HY-PMSU 300-3.4	HY-PMSU 350-3	HY-PMSU 400-2.5	HY-PMSU 500-2
Rated Output Voltage	V	150	200	250	300	350	400	500
Rated Output Current	A	6.7	5	4	3.4	3	2.5	2
Rated Output Power	W	1000	1000	1000	1000	1000	1000	1000
Efficiency	%	87	87	87	87	87	87	87
Constant Pressure Mode (CV Mode)								
Output Range Can Be Set	V	0- Rated output value						
Input Adjustment Rate	mV	0.01%+2mV of rated output voltage (AC input 220V ± 15%, constant load)						
Load Adjustment Rate	mV	0.01%+2mV of rated output voltage (no-load to full load, constant input voltage, measured at remote compensation point)						
Maximum Compensation Voltage For Telemetry	V	8V (can be customized according to demand)						
Ripple Effective Value rms (3Hz-300kHz)	mVrms	8	12	16	20	30	30	45
Noise Peak-To-Peak Value p-p (20Hz-20MHz)	mVpp	75	90	110	130	180	180	250
Output Voltage Rise Time 10-90%	ms	150	150	150	150	150	150	200
Output Voltage Drop Time (Full Load)90-10%	ms	150	150	150	150	150	150	200
Output Voltage Drop Time (No Load)	ms	2000	2100	2300	2500	3000	3000	3500
Transient Response Time	ms	<2ms. The time when the output voltage is restored to within 0.5% of the rated voltage. The variation of the output current is 10-90% of the rated value.Output voltage setting range: 10-100%, local sampling.						
Constant Current Mode (CC Mode)								
Output Range Can Be Set	A	0- Rated output value						
Input Adjustment Rate	mA	0.01%+2mA of rated output current (AC input 220V ± 15%, constant load)						
Load Adjustment Rate	mA	0.02%+5mA of rated output current (no-load to full load, constant input voltage)						
Ripple Effective Value rms (3Hz-300kHz)	mArms	8	8	7	6	6	6	5

HY-PMSU Series Technical Parameters

DC 1000W (600V-1500V)

Models		HY-PMSU 600-1.7	HY-PMSU 800-1.3	HY-PMSU 1000-1	HY-PMSU 1200-0.9	HY-PMSU 1500-0.7
Rated Output Voltage	V	600	800	1000	1200	1500
Rated Output Current	A	1.7	1.3	1	0.9	0.7
Rated Output Power	W	1000	1000	1000	1000	1000
Efficiency	%	87	87	87	87	87
Constant Pressure Mode (CV Mode)						
Output Range Can Be Set	V	0- Rated output value				
Input Adjustment Rate	mV	0.01%+2mV of rated output voltage (AC input 220V ± 15%, constant load)				
Load Adjustment Rate	mV	0.01%+2mV of rated output voltage (no-load to full load, constant input voltage, measured at remote compensation point)				
Maximum Compensation Voltage For Telemetry	V	8V (can be customized according to demand)				
Ripple Effective Value rms (3Hz-300kHz)	mVrms	60	75	80	85	85
Noise Peak-To-Peak Value p-p (20Hz-20MHz)	mVpp	300	350	350	380	400
Output Voltage Rise Time 10-90%	ms	250	250	280	300	300
Output Voltage Drop Time (Full Load)90-10%	ms	250	250	280	300	300
Output Voltage Drop Time (No Load)	ms	4000	4500	5000	5500	6000
Transient Response Time	ms	<2ms. The time when the output voltage is restored to within 0.5% of the rated voltage. The variation of the output current is 10-90% of the rated value.Output voltage setting range: 10-100%, local sampling.				
Constant Current Mode (CC Mode)						
Output Range Can Be Set	A	0- Rated output value				
Input Adjustment Rate	mA	0.01%+2mA of rated output current (AC input 220V ± 15%, constant load)				
Load Adjustment Rate	mA	0.02%+5mA of rated output current (no-load to full load, constant input voltage)				
Ripple Effective Value rms (3Hz-300kHz)	mArms	4	6	6	6	6

DC 1600W (10V-100V)

Models		HY-PMSU 10-160	HY-PMSU 20-80	HY-PMSU 30-54	HY-PMSU 40-40	HY-PMSU 60-26.7	HY-PMSU 80-20	HY-PMSU 100-16
Rated Output Voltage	V	10	20	30	40	60	80	100
Rated Output Current	A	160	80	54	40	26.7	20	16
Rated Output Power	W	1600	1600	1600	1600	1600	1600	1600
Efficiency	%	88	89	86	88	88	88	88
Constant Pressure Mode (CV Mode)								
Output Range Can Be Set	V	0- Rated output value						
Input Adjustment Rate	mV	0.01%+2mV of rated output voltage (AC input 220V ± 15%, constant load)						
Load Adjustment Rate	mV	0.01%+2mV of rated output voltage (no-load to full load, constant input voltage, measured at remote compensation point)						
Maximum Compensation Voltage For Telemetry	V	<30V 2V; ≥30V 8V; (Can be customized according to demand)						
Ripple Effective Value rms (3Hz-300kHz)	mVrms	6	6	6	7	7	7	8
Noise Peak-To-Peak Value p-p (20Hz-20MHz)	mVpp	50	50	50	60	60	75	75
Output Voltage Rise Time 10-90%	ms	20	20	80	80	80	150	150
Output Voltage Drop Time (Full Load)90-10%	ms	30	30	80	80	80	150	150
Output Voltage Drop Time (No Load)	ms	450	700	900	1000	1100	1200	1500
Transient Response Time	ms	The time when the output voltage is restored to within 0.5% of the rated voltage. The variation of the output current is 10-90% of the rated value.Output voltage setting range: 10-100%, local sampling. Output models below 100V: <1ms, output models greater than 100V: <2ms.						
Constant Current Mode (CC Mode)								
Output Range Can Be Set	A	0- Rated output value						
Input Adjustment Rate	mA	0.01%+2mA of rated output current (AC input 220V ± 15%, constant load)						
Load Adjustment Rate	mA	0.02%+5mA of rated output current (no-load to full load, constant input voltage)						
Ripple Effective Value rms (3Hz-300kHz)	mArms	300	120	60	65	60	40	20

HY-PMSU Series Technical Parameters

DC 1600W (150V-500V)

Models		HY-PMSU 150-10.7	HY-PMSU 200-8	HY-PMSU 250-6.4	HY-PMSU 300-5.4	HY-PMSU 350-4.6	HY-PMSU 400-4	HY-PMSU 500-3.2
Rated Output Voltage	V	150	200	250	300	350	400	500
Rated Output Current	A	10.7	8	6.4	5.4	4.6	4	3.2
Rated Output Power	W	1600	1600	1600	1600	1600	1600	1600
Efficiency	%	88	88	88	88	88	88	88
Constant Pressure Mode (CV Mode)								
Output Range Can Be Set	V	0- Rated output value						
Input Adjustment Rate	mV	0.01% +2mV of rated output voltage (AC input 220V ± 15%, constant load)						
Load Adjustment Rate	mV	0.01%+2mV of rated output voltage (no-load to full load, constant input voltage, measured at remote compensation point)						
Maximum Compensation Voltage For Telemetry	V	8V (can be customized according to demand)						
Ripple Effective Value rms (3Hz-300kHz)	mVrms	8	12	16	20	30	30	45
Noise Peak-To-Peak Value p-p (20Hz-20MHz)	mVpp	75	90	110	130	190	190	250
Output Voltage Rise Time 10-90%	ms	150	150	150	150	180	180	210
Output Voltage Drop Time (Full Load)90-10%	ms	150	150	150	150	180	180	210
Output Voltage Drop Time (No Load)	ms	2000	2100	2300	2500	3000	3000	3500
Transient Response Time	ms	The time when the output voltage is restored to within 0.5% of the rated voltage. The variation of the output current is 10-90% of the rated value.Output voltage setting range: 10-100%, local sampling. Output models below 100V: <1ms, output models greater than 100V: <2ms.						
Constant Current Mode (CC Mode)								
Output Range Can Be Set	A	0- Rated output value						
Input Adjustment Rate	mA	0.01% +2mA of rated output current (AC input 220V ± 15%, constant load)						
Load Adjustment Rate	mA	0.02% +5mA of rated output current (no-load to full load, constant input voltage)						
Ripple Effective Value rms (3Hz-300kHz)	mArms	15	15	15	15	10	10	8

DC 1600W (600V-1500V)

Models		HY-PMSU 600-2.7	HY-PMSU 800-2	HY-PMSU 1000-1.6	HY-PMSU 1200-1.4	HY-PMSU 1500-1.1
Rated Output Voltage	V	600	800	1000	1200	1500
Rated Output Current	A	2.7	2	1.6	1.4	1.1
Rated Output Power	W	1600	1600	1600	1600	1600
Efficiency	%	88	88	87	87	87
Constant Pressure Mode (CV Mode)						
Output Range Can Be Set	V	0- Rated output value				
Input Adjustment Rate	mV	0.01% +2mV of rated output voltage (AC input 220V ± 15%, constant load)				
Load Adjustment Rate	mV	0.01%+2mV of rated output voltage (no-load to full load, constant input voltage, measured at remote compensation point)				
Maximum Compensation Voltage For Telemetry	V	8V (can be customized according to demand)				
Ripple Effective Value rms (3Hz-300kHz)	mVrms	60	80	85	85	85
Noise Peak-To-Peak Value p-p (20Hz-20MHz)	mVpp	300	400	450	450	500
Output Voltage Rise Time 10-90%	ms	250	350	350	350	350
Output Voltage Drop Time (Full Load)90-10%	ms	250	350	350	350	350
Output Voltage Drop Time (No Load)	ms	4000	5000	5000	5000	5000
Transient Response Time	ms	<2ms. The time when the output voltage is restored to within 0.5% of the rated voltage. The variation of the output current is 10-90% of the rated value.Output voltage setting range: 10-100%, local sampling.				
Constant Current Mode (CC Mode)						
Output Range Can Be Set	A	0- Rated output value				
Input Adjustment Rate	mA	0.01% +2mA of rated output current (AC input 220V ± 15%, constant load)				
Load Adjustment Rate	mA	0.02% +5mA of rated output current (no-load to full load, constant input voltage)				
Ripple Effective Value rms (3Hz-300kHz)	mArms	7	6	6	6	6

HY-PMSU Series Technical Parameters

DC 2500W (10V-100V)

Models		HY-PMSU 10-250	HY-PMSU 20-125	HY-PMSU 30-84	HY-PMSU 40-62.5	HY-PMSU 60-41.7	HY-PMSU 80-32	HY-PMSU 100-25
Rated Output Voltage	V	10	20	30	40	60	80	100
Rated Output Current	A	250	125	84	62.5	41.7	32	25
Rated Output Power	W	2500	2500	2500	2500	2500	2500	2500
Efficiency	%	88	89	87	88	88	88	88
Constant Pressure Mode (CV Mode)								
Output Range Can Be Set	V	0- Rated output value						
Input Adjustment Rate	mV	0.01% +2mV of rated output voltage (AC input 220V ± 15%, constant load)						
Load Adjustment Rate	mV	0.01%+2mV of rated output voltage (no-load to full load, constant input voltage, measured at remote compensation point)						
Maximum Compensation Voltage For Telemetry	V	< 30V 2V; ≥ 30V 8V; (Can be customized according to demand)						
Ripple Effective Value rms (3Hz-300kHz)	mVrms	8	10	6	6	6	7	10
Noise Peak-To-Peak Value p-p (20Hz-20MHz)	mVpp	75	50	55	55	60	60	70
Output Voltage Rise Time 10-90%	ms	15	15	15	20	30	40	40
Output Voltage Drop Time (Full Load)90-10%	ms	20	20	20	20	30	50	50
Output Voltage Drop Time (No Load)	ms	450	500	600	700	1100	1200	1500
Transient Response Time	ms	The time when the output voltage is restored to within 0.5% of the rated voltage. The variation of the output current is 10-90% of the rated value.Output voltage setting range: 10-100%, local sampling. Output models below 100V: <1ms, output models greater than 100V: <2ms.						
Constant Current Mode (CC Mode)								
Output Range Can Be Set	A	0- Rated output value						
Input Adjustment Rate	mA	0.01% +2mA of rated output current (AC input 220V ± 15%, constant load)						
Load Adjustment Rate	mA	0.02% +5mA of rated output current (no-load to full load, constant input voltage)						
Ripple Effective Value rms (3Hz-300kHz)	mArms	500	250	150	90	60	40	30

DC 2500W (150V-500V)

Models		HY-PMSU 150-16.7	HY-PMSU 200-12.5	HY-PMSU 250-10	HY-PMSU 300-8.4	HY-PMSU 350-7.2	HY-PMSU 400-6.3	HY-PMSU 500-5
Rated Output Voltage	V	150	200	250	300	350	400	500
Rated Output Current	A	16.7	12.5	10	8.4	7.2	6.3	5
Rated Output Power	W	2500	2500	2500	2500	2500	2500	2500
Efficiency	%	88	88	88	88	88	88	88
Constant Pressure Mode (CV Mode)								
Output Range Can Be Set	V	0- Rated output value						
Input Adjustment Rate	mV	0.01% +2mV of rated output voltage (AC input 220V ± 15%, constant load)						
Load Adjustment Rate	mV	0.01%+2mV of rated output voltage (no-load to full load, constant input voltage, measured at remote compensation point)						
Maximum Compensation Voltage For Telemetry	V	8V (can be customized according to demand)						
Ripple Effective Value rms (3Hz-300kHz)	mVrms	20	25	35	45	50	50	55
Noise Peak-To-Peak Value p-p (20Hz-20MHz)	mVpp	90	110	130	150	180	180	210
Output Voltage Rise Time 10-90%	ms	60	65	70	80	85	85	90
Output Voltage Drop Time (Full Load)90-10%	ms	80	85	90	100	100	100	100
Output Voltage Drop Time (No Load)	ms	2500	2500	2500	3000	3000	3000	3000
Transient Response Time	ms	The time when the output voltage is restored to within 0.5% of the rated voltage. The variation of the output current is 10-90% of the rated value.Output voltage setting range: 10-100%, local sampling. Output models below 100V: <1ms, output models greater than 100V: <2ms.						
Constant Current Mode (CC Mode)								
Output Range Can Be Set	A	0- Rated output value						
Input Adjustment Rate	mA	0.01% +2mA of rated output current (AC input 220V ± 15%, constant load)						
Load Adjustment Rate	mA	0.02% +5mA of rated output current (no-load to full load, constant input voltage)						
Ripple Effective Value rms (3Hz-300kHz)	mArms	12	11	10	10	8	8	7

HY-PMSU Series Technical Parameters

DC 2500W (600V-1500V)

Models		HY-PMSU 600-4.2	HY-PMSU 800-3.2	HY-PMSU 1000-2.5	HY-PMSU 1200-2.1	HY-PMSU 1500-1.7
Rated Output Voltage	V	600	800	1000	1200	1500
Rated Output Current	A	4.2	3.2	2.5	2.1	1.7
Rated Output Power	W	2500	2500	2500	2500	2500
Efficiency	%	88	88	88	88	88
Constant Pressure Mode (CV Mode)						
Output Range Can Be Set	V	0- Rated output value				
Input Adjustment Rate	mV	0.01% +2mV of rated output voltage (AC input 220V ± 15%, constant load)				
Load Adjustment Rate	mV	0.015% +5mV of rated output voltage (no-load to full load, constant input voltage, measured at remote compensation point)				
Maximum Compensation Voltage For Telemetry	V	8V (can be customized according to demand)				
Ripple Effective Value rms (3Hz-300kHz)	mVrms	60	80	80	80	80
Noise Peak-To-Peak Value p-p (20Hz-20MHz)	mVpp	240	320	320	320	320
Output Voltage Rise Time 10-90%	ms	100	120	120	120	120
Output Voltage Drop Time (Full Load)90-10%	ms	100	120	120	120	120
Output Voltage Drop Time (No Load)	ms	3000	4000	4000	4000	4000
Transient Response Time	ms	<2ms. The time when the output voltage is restored to within 0.5% of the rated voltage. The variation of the output current is 10-90% of the rated value.Output voltage setting range: 10-100%, local sampling.				
Constant Current Mode (CC Mode)						
Output Range Can Be Set	A	0- Rated output value				
Input Adjustment Rate	mA	0.01% +2mA of rated output current (AC input 220 V ± 15%, constant load)				
Load Adjustment Rate	mA	0.02% +5mA of rated output current (no-load to full load, constant input voltage)				
Ripple Effective Value rms (3Hz-300kHz)	mArms	5	4	4	4	4

DC 3600W (10V-100V)

Models		HY-PMSU 10-360	HY-PMSU 20-180	HY-PMSU 30-120	HY-PMSU 40-90	HY-PMSU 60-60	HY-PMSU 80-45	HY-PMSU 100-36
Rated Output Voltage	V	10	20	30	40	60	80	100
Rated Output Current	A	360	180	120	90	60	45	36
Rated Output Power	W	3600	3600	3600	3600	3600	3600	3600
Efficiency	%	88	89	86	86	88	88	88
Constant Pressure Mode (CV Mode)								
Output Range Can Be Set	V	0- Rated output value						
Input Adjustment Rate	mV	0.01% +2mV of rated output voltage (AC input 220V ± 15%, constant load)						
Load Adjustment Rate	mV	0.01%+2mV of rated output voltage (no-load to full load, constant input voltage, measured at remote compensation point)						
Maximum Compensation Voltage For Telemetry	V	<30V 2V; ≥30V 8V; (Can be customized according to demand)						
Ripple Effective Value rms (3Hz-300kHz)	mVrms	8	10	7	7	7	20	25
Noise Peak-To-Peak Value p-p (20Hz-20MHz)	mVpp	55	55	55	55	60	70	100
Output Voltage Rise Time 10-90%	ms	30	30	80	80	150	150	150
Output Voltage Drop Time (Full Load)90-10%	ms	50	50	160	160	160	300	300
Output Voltage Drop Time (No Load)	ms	450	600	900	1000	1100	1200	1500
Transient Response Time	ms	The time when the output voltage is restored to within 0.5% of the rated voltage. The variation of the output current is 10-90% of the rated value.Output voltage setting range: 10-100%, local sampling. Output models below 100V: <1ms, output models greater than 100V: <2ms.						
Constant Current Mode (CC Mode)								
Output Range Can Be Set	A	0- Rated output value						
Input Adjustment Rate	mA	0.01% +2mA of rated output current (AC input 220V ± 15%, constant load)						
Load Adjustment Rate	mA	0.02% +5mA of rated output current (no-load to full load, constant input voltage)						
Ripple Effective Value rms (3Hz-300kHz)	mArms	650	300	250	150	70	60	50

HY-PMSU Series Technical Parameters

DC 3600W (150V-500V)

Models		HY-PMSU 150-24	HY-PMSU 200-18	HY-PMSU 250-14.4	HY-PMSU 300-12	HY-PMSU 350-10.3	HY-PMSU 400-9	HY-PMSU 500-7.2
Rated Output Voltage	V	150	200	250	300	350	400	500
Rated Output Current	A	24	18	14.4	12	10.3	9	7.2
Rated Output Power	W	3600	3600	3600	3600	3600	3600	3600
Efficiency	%	87	87	87	87	87	87	87
Constant Pressure Mode (CV Mode)								
Output Range Can Be Set	V	0- Rated output value						
Input Adjustment Rate	mV	0.01%+2mV of rated output voltage (AC input 220V ± 15%, constant load)						
Load Adjustment Rate	mV	0.01%+2mV of rated output voltage (no-load to full load, constant input voltage, measured at remote compensation point)						
Maximum Compensation Voltage For Telemetry	V	8V (can be customized according to demand)						
Ripple Effective Value rms (3Hz-300kHz)	mVrms	20	70	75	80	80	80	80
Noise Peak-To-Peak Value p-p (20Hz-20MHz)	mVpp	100	275	280	300	220	220	330
Output Voltage Rise Time 10-90%	ms	150	200	200	200	200	200	250
Output Voltage Drop Time (Full Load)90-10%	ms	300	300	300	300	400	400	450
Output Voltage Drop Time (No Load)	ms	2000	3000	3300	3500	3600	3600	3800
Transient Response Time	ms	The time when the output voltage is restored to within 0.5% of the rated voltage. The variation of the output current is 10-90% of the rated value.Output voltage setting range: 10-100%, local sampling. Output models below 100V: <1ms, output models greater than 100V: <2ms.						
Constant Current Mode (CC Mode)								
Output Range Can Be Set	A	0- Rated output value						
Input Adjustment Rate	mA	0.01%+2mA of rated output current (AC input 220V ± 15%, constant load)						
Load Adjustment Rate	mA	0.02%+5mA of rated output current (no-load to full load, constant input voltage)						
Ripple Effective Value rms (3Hz-300kHz)	mArms	40	11	10	10	8	8	7

DC 3600W (600V-1500V)

Models		HY-PMSU 600-6	HY-PMSU 800-4.5	HY-PMSU 1000-3.6	HY-PMSU 1200-3	HY-PMSU 1500-2.4
Rated Output Voltage	V	600	800	1000	1200	1500
Rated Output Current	A	6	4.5	3.6	3	2.4
Rated Output Power	W	3600	3600	3600	3600	3600
Efficiency	%	87	88	88	88	88
Constant Pressure Mode (CV Mode)						
Output Range Can Be Set	V	0- Rated output value				
Input Adjustment Rate	mV	0.01% +2mV of rated output voltage (AC input 220V ± 15%, constant load)				
Load Adjustment Rate	mV	0.015% +5mV of rated output voltage (no-load to full load, constant input voltage, measured at remote compensation point)				
Maximum Compensation Voltage For Telemetry	V	8V (can be customized according to demand)				
Ripple Effective Value rms (3Hz-300kHz)	mVrms	80	110	120	130	140
Noise Peak-To-Peak Value p-p (20Hz-20MHZ)	mVpp	350	700	800	900	1400
Output Voltage Rise Time 10-90%	ms	250	130	160	200	240
Output Voltage Drop Time (Full Load)90-10%	ms	500	270	340	400	510
Output Voltage Drop Time (No Load)	ms	4000	4000	5000	6000	8000
Transient Response Time	ms	<2ms. The time when the output voltage is restored to within 0.5% of the rated voltage. The variation of the output current is 10-90% of the rated value.Output voltage setting range: 10-100%, local sampling.				
Constant Current Mode (CC Mode)						
Output Range Can Be Set	A	0- Rated output value				
Input Adjustment Rate	mA	0.01% +2mA of rated output current (AC input 220V ± 15%, constant load)				
Load Adjustment Rate	mA	0.02% +5mA of rated output current (no-load to full load, constant input voltage)				
Ripple Effective Value rms (3Hz-300kHz)	mArms	8	8	4	3	2

HY-PMSU Series Technical Parameters

DC 5000W (10V-100V)

Models		HY-PMSU 10-530	HY-PMSU 20-250	HY-PMSU 30-170	HY-PMSU 40-125	HY-PMSU 60-85	HY-PMSU 80-62.5	HY-PMSU 100-50
Rated Output Voltage	V	10	20	30	40	60	80	100
Rated Output Current	A	530	250	170	125	85	62.5	50
Rated Output Power	W	5000	5000	5000	5000	5000	5000	5000
Efficiency	%	89	91	86	86	88	88	88
Constant Pressure Mode (CV Mode)								
Output Range Can Be Set	V	0- Rated output value						
Input Adjustment Rate	mV	0.01% +2mV of rated output voltage (AC input 220V ± 15%, constant load)						
Load Adjustment Rate	mV	0.01%+2mV of rated output voltage (no-load to full load, constant input voltage, measured at remote compensation point)						
Maximum Compensation Voltage For Telemetry	V	<30V 2V; ≥30V 8V; (Can be customized according to demand)						
Ripple Effective Value rms (3Hz-300kHz)	mVrms	8	10	10	8	8	15	15
Noise Peak-To-Peak Value p-p (20Hz-20MHz)	mVpp	75	75	70	70	70	80	90
Output Voltage Rise Time 10-90%	ms	30	30	30	30	50	50	50
Output Voltage Drop Time (Full Load)90-10%	ms	50	50	80	80	80	100	100
Output Voltage Drop Time (No Load)	ms	300	600	800	900	1000	1100	1200
Transient Response Time	ms	The time when the output voltage is restored to within 0.5% of the rated voltage. The variation of the output current is 10-90% of the rated value.Output voltage setting range: 10-100%, local sampling. Output models below 100V: <1ms, output models greater than 100V: <2ms.						
Constant Current Mode (CC Mode)								
Output Range Can Be Set	A	0- Rated output value						
Input Adjustment Rate	mA	0.01% +2mA of rated output current (AC input 220V ± 15%, constant load)						
Load Adjustment Rate	mA	0.02% +5mA of rated output current (no-load to full load, constant input voltage)						
Ripple Effective Value rms (3Hz-300kHz)	mArms	800	500	350	150	120	80	50

DC 5000W (150V-500V)

Models		HY-PMSU 150-34	HY-PMSU 200-25	HY-PMSU 250-20	HY-PMSU 300-17	HY-PMSU 350-14.3	HY-PMSU 400-12.5	HY-PMSU 500-10
Rated Output Voltage	V	150	200	250	300	350	400	500
Rated Output Current	A	34	25	20	17	14.3	12.5	10
Rated Output Power	W	5000	5000	5000	5000	5000	5000	5000
Efficiency	%	87	88	88	88	88	88	88
Constant Pressure Mode (CV Mode)								
Output Range Can Be Set	V	0- Rated output value						
Input Adjustment Rate	mV	0.01% +2mV of rated output voltage (AC input 220V ± 15%, constant load)						
Load Adjustment Rate	mV	0.01%+2mV of rated output voltage (no-load to full load, constant input voltage, measured at remote compensation point)						
Maximum Compensation Voltage For Telemetry	V	8V (can be customized according to demand)						
Ripple Effective Value rms (3Hz-300kHz)	mVrms	20	45	50	60	70	70	70
Noise Peak-To-Peak Value p-p (20Hz-20MHz)	mVpp	120	200	300	200	350	350	400
Output Voltage Rise Time 10-90%	ms	50	50	50	50	65	65	80
Output Voltage Drop Time (Full Load)90-10%	ms	100	100	100	100	135	135	170
Output Voltage Drop Time (No Load)	ms	1500	2000	2300	2500	3000	3000	3000
Transient Response Time	ms	The time when the output voltage is restored to within 0.5% of the rated voltage. The variation of the output current is 10-90% of the rated value.Output voltage setting range: 10-100%, local sampling. Output models below 100V: <1ms, output models greater than 100V: <2ms.						
Constant Current Mode (CC Mode)								
Output Range Can Be Set	A	0- Rated output value						
Input Adjustment Rate	mA	0.01% +2mA of rated output current (AC input 220V ± 15%, constant load)						
Load Adjustment Rate	mA	0.02% +5mA of rated output current (no-load to full load, constant input voltage)						
Ripple Effective Value rms (3Hz-300kHz)	mArms	50	50	35	20	15	15	10

HY-PMSU Series Technical Parameters

DC 5000W (600V-1500V)

Models		HY-PMSU 600-8.5	HY-PMSU 800-6.3	HY-PMSU 1000-5	HY-PMSU 1200-4.2	HY-PMSU 1500-3.4
Rated Output Voltage	V	600	800	1000	1200	1500
Rated Output Current	A	8.5	6.3	5	4.2	3.4
Rated Output Power	W	5000	5000	5000	5000	5000
Efficiency	%	88	88	88	88	88
Constant Pressure Mode (CV Mode)						
Output Range Can Be Set	V	0- Rated output value				
Input Adjustment Rate	mV	0.01% of rated output voltage (AC input 220V ± 15%, constant load)				
Load Adjustment Rate	mV	0.015% +5mV of rated output voltage (no-load to full load, constant input voltage, measured at remote compensation point)				
Maximum Compensation Voltage For Telemetry	V	8V (can be customized according to demand)				
Ripple Effective Value rms (3Hz-300kHz)	mVrms	100	110	120	130	140
Noise Peak-To-Peak Value p-p (20Hz-20MHz)	mVpp	450	700	800	900	1400
Output Voltage Rise Time 10-90%	ms	100	130	160	200	240
Output Voltage Drop Time (Full Load)90-10%	ms	200	270	340	400	510
Output Voltage Drop Time (No Load)	ms	3000	4000	5000	6000	8000
Transient Response Time	ms	<2ms. The time when the output voltage is restored to within 0.5% of the rated voltage. The variation of the output current is 10-90% of the rated value.Output voltage setting range: 10-100%, local sampling.				
Constant Current Mode (CC Mode)						
Output Range Can Be Set	A	0- Rated output value				
Input Adjustment Rate	mA	0.05% of rated output current (AC input 220V ± 15%, constant load)				
Load Adjustment Rate	mA	0.1% of rated output current (no-load to full load, constant input voltage)				
Ripple Effective Value rms (3Hz-300kHz)	mArms	10	10	5	3	2

DC 10kW (10V-80V)

Models		HY-PMSU 10-1040	HY-PMSU 20-500	HY-PMSU 30-334	HY-PMSU 40-250	HY-PMSU 60-167	HY-PMSU 80-125
Rated Output Voltage	V	10	20	30	40	60	80
Rated Output Current	A	1040	500	334	250	167	125
Rated Output Power	kW	10	10	10	10	10	10
Efficiency	%	89	91	91	91	91	91
Constant Pressure Mode (CV Mode)							
Output Range Can Be Set	V	0- Rated output value					
Input Adjustment Rate	mV	0.01% of rated output voltage (AC input 380V ± 15%, constant load)					
Load Adjustment Rate	mV	0.015% +5mV of rated output voltage (no-load to full load, constant input voltage, measured at remote compensation point)					
Maximum Compensation Voltage For Telemetry	V	< 30V 2V; ≥30V 8V; (Can be customized according to demand)					
Ripple Effective Value rms (3Hz-300kHz)	mVrms	8	10	20	20	20	25
Noise Peak-To-Peak Value p-p (20Hz-20MHz)	mVpp	60	60	60	60	75	100
Output Voltage Rise Time 10-90%	ms	30	30	50	50	50	50
Output Voltage Drop Time (Full Load)90-10%	ms	50	50	100	100	100	100
Transient Response Time	ms	The time when the output voltage is restored to within 0.5% of the rated voltage. The variation of the output current is 10-90% of the rated value.Output voltage setting range: 10-100%, local sampling. Output models below 100V: <1ms, output models greater than 100V: <2ms.					
Constant Current Mode (CC Mode)							
Output Range Can Be Set	A	0- Rated output value					
Input Adjustment Rate	mA	0.05% of rated output current (AC input 380V ± 15%, constant load)					
Load Adjustment Rate	mA	0.1% of rated output current (no-load to full load, constant input voltage)					
Ripple Effective Value rms (3Hz-300kHz)	mArms	1200	700	350	180	67	50

HY-PMSU Series Technical Parameters

DC 10kW (100V-350V)

Models		HY-PMSU 100-100	HY-PMSU 150-67	HY-PMSU 200-50	HY-PMSU 250-40	HY-PMSU 300-33.5	HY-PMSU 350-28.6
Rated Output Voltage	V	100	150	200	250	300	350
Rated Output Current	A	100	67	50	40	33.5	28.6
Rated Output Power	kW	10	10	10	10	10	10
Efficiency	%	91	91	91	91	92	92
Constant Pressure Mode (CV Mode)							
Output Range Can Be Set	V	0- Rated output value					
Input Adjustment Rate	mV	0.01% of rated output voltage (AC input 380V ± 15%, constant load)					
Load Adjustment Rate	mV	0.015% +5mV of rated output voltage (no-load to full load, constant input voltage, measured at remote compensation point)					
Maximum Compensation Voltage For Telemetry	V	8V (can be customized according to demand)					
Ripple Effective Value rms (3Hz-300kHz)	mVrms	25	25	35	35	60	60
Noise Peak-To-Peak Value p-p (20Hz-20MHz)	mVpp	150	150	175	200	200	300
Output Voltage Rise Time 10-90%	ms	50	50	50	50	50	50
Output Voltage Drop Time (Full Load)90-10%	ms	100	100	100	100	100	100
Transient Response Time	ms	The time when the output voltage is restored to within 0.5% of the rated voltage. The variation of the output current is 10-90% of the rated value.Output voltage setting range: 10-100%, local sampling. Output models below 100V: <1ms, output models greater than 100V: <2ms.					
Constant Current Mode (CC Mode)							
Output Range Can Be Set	A	0- Rated output value					
Input Adjustment Rate	mA	0.05% of rated output current (AC input 380V ± 15%, constant load)					
Load Adjustment Rate	mA	0.1% of rated output current (no-load to full load, constant input voltage)					
Ripple Effective Value rms (3Hz-300kHz)	mArms	40	26	20	16	13	10

DC 10kW (400V-1000V)

Models		HY-PMSU 400-25	HY-PMSU 500-20	HY-PMSU 600-16.7	HY-PMSU 800-12.5	HY-PMSU 1000-10
Rated Output Voltage	V	400	500	600	800	1000
Rated Output Current	A	25	20	16.7	12.5	10
Rated Output Power	kW	10	10	10	10	10
Efficiency	%	92	91	92	92	91
Constant Pressure Mode (CV Mode)						
Output Range Can Be Set	V	0- Rated output value				
Input Adjustment Rate	mV	0.01% of rated output voltage (AC input 380V ± 15%, constant load)				
Load Adjustment Rate	mV	0.01% +5mV of rated output voltage (no-load to full load, constant input voltage, measured at remote compensation point)				
Maximum Compensation Voltage For Telemetry	V	8V (can be customized according to demand)				
Ripple Effective Value rms (3Hz-300kHz)	mVrms	60	60	60	80	100
Noise Peak-To-Peak Value p-p (20Hz-20MHz)	mVpp	300	350	350	700	800
Output Voltage Rise Time 10-90%	ms	50	50	50	50	50
Output Voltage Drop Time (Full Load)90-10%	ms	100	100	100	100	100
Transient Response Time	ms	<2ms. The time when the output voltage is restored to within 0.5% of the rated voltage. The variation of the output current is 10-90% of the rated value.Output voltage setting range: 10-100%, local sampling.				
Constant Current Mode (CC Mode)						
Output Range Can Be Set	A	0- Rated output value				
Input Adjustment Rate	mA	0.05% of rated output current (AC input 380V ± 15%, constant load)				
Load Adjustment Rate	mA	0.08% of rated output current (no-load to full load, constant input voltage)				
Ripple Effective Value rms (3Hz-300kHz)	mArms	10	8	7	15	10

HY-PMSU Series Technical Parameters

DC 15kW (10V-80V)

Models		HY-PMSU 10-1500	HY-PMSU 20-750	HY-PMSU 30-500	HY-PMSU 40-375	HY-PMSU 60-250	HY-PMSU 80-187.5
Rated Output Voltage	V	10	20	30	40	60	80
Rated Output Current	A	1500	750	500	375	250	187.5
Rated Output Power	kW	15	15	15	15	15	15
Efficiency	%	89	90	91	91	91	91
Constant Pressure Mode (CV Mode)							
Output Range Can Be Set	V	0- Rated output value					
Input Adjustment Rate	mV	0.01% of rated output voltage (AC input 380V ± 15%, constant load)					
Load Adjustment Rate	mV	0.015% +5mV of rated output voltage (no-load to full load, constant input voltage, measured at remote compensation point)					
Maximum Compensation Voltage For Telemetry	V	<30V 2V; ≥30V 8V; (Can be customized according to demand)					
Ripple Effective Value rms (3Hz-300kHz)	mVrms	8	10	20	20	20	25
Noise Peak-To-Peak Value p-p (20Hz-20MHz)	mVpp	60	40	60	60	75	100
Output Voltage Rise Time 10-90%	ms	30	30	50	50	50	50
Output Voltage Drop Time (Full Load)90-10%	ms	50	50	100	100	100	100
Transient Response Time	ms	The time when the output voltage is restored to within 0.5% of the rated voltage. The variation of the output current is 10-90% of the rated value.Output voltage setting range: 10-100%, local sampling. Output models below 100V: <1ms, output models greater than 100V: <2ms.					
Constant Current Mode (CC Mode)							
Output Range Can Be Set	A	0- Rated output value					
Input Adjustment Rate	mA	0.05% of rated output current (AC input 380V ± 15%, constant load)					
Load Adjustment Rate	mA	0.1% of rated output current (no-load to full load, constant input voltage)					
Ripple Effective Value rms (3Hz-300kHz)	mArms	1200	1200	350	200	100	100

DC 15kW (100V-350V)

Models		HY-PMSU 100-150	HY-PMSU 150-100	HY-PMSU 200-75	HY-PMSU 250-60	HY-PMSU 300-50	HY-PMSU 350-43
Rated Output Voltage	V	100	150	200	250	300	350
Rated Output Current	A	150	100	75	60	50	43
Rated Output Power	kW	15	15	15	15	15	15
Efficiency	%	91	91	91	91	89	91
Constant Pressure Mode (CV Mode)							
Output Range Can Be Set	V	0- Rated output value					
Input Adjustment Rate	mV	0.01% of rated output voltage (AC input 380V ± 15%, constant load)					
Load Adjustment Rate	mV	0.015% +5mV of rated output voltage (no-load to full load, constant input voltage, measured at remote compensation point)					
Maximum Compensation Voltage For Telemetry	V	8V (can be customized according to demand)					
Ripple Effective Value rms (3Hz-300kHz)	mVrms	25	25	35	35	60	60
Noise Peak-To-Peak Value p-p (20Hz-20MHz)	mVpp	100	150	175	200	200	300
Output Voltage Rise Time 10-90%	ms	50	50	50	50	50	50
Output Voltage Drop Time (Full Load)90-10%	ms	100	100	100	100	100	100
Transient Response Time	ms	The time when the output voltage is restored to within 0.5% of the rated voltage. The variation of the output current is 10-90% of the rated value.Output voltage setting range: 10-100%, local sampling. Output models below 100V: <1ms, output models greater than 100V: <2ms.					
Constant Current Mode (CC Mode)							
Output Range Can Be Set	A	0- Rated output value					
Input Adjustment Rate	mA	0.05% of rated output current (AC input 380V ± 15%, constant load)					
Load Adjustment Rate	mA	0.1% of rated output current (no-load to full load, constant input voltage)					
Ripple Effective Value rms (3Hz-300kHz)	mArms	100	50	20	20	20	10

HY-PMSU Series Technical Parameters

DC 15kW (400V-1000V)

Models		HY-PMSU 400-37.5	HY-PMSU 500-30	HY-PMSU 600-25	HY-PMSU 800-18.8	HY-PMSU 1000-15
Rated Output Voltage	V	400	500	600	800	1000
Rated Output Current	A	37.5	30	25	18.8	15
Rated Output Power	kW	15	15	15	15	15
Efficiency	%	91	91	91	91	91
Constant Pressure Mode (CV Mode)						
Output Range Can Be Set	V	0- Rated output value				
Input Adjustment Rate	mV	0.01% of rated output voltage (AC input 380V ± 15%, constant load)				
Load Adjustment Rate	mV	0.01% +5mV of rated output voltage (no-load to full load, constant input voltage, measured at remote compensation point)				
Maximum Compensation Voltage For Telemetry	V	8V (can be customized according to demand)				
Ripple Effective Value rms (3Hz-300kHz)	mVrms	60	60	60	80	100
Noise Peak-To-Peak Value p-p (20Hz-20MHz)	mVpp	300	350	350	700	800
Output Voltage Rise Time 10-90%	ms	50	50	50	50	50
Output Voltage Drop Time (Full Load)90-10%	ms	100	100	100	100	100
Transient Response Time	ms	<2ms. The time when the output voltage is restored to within 0.5% of the rated voltage. The variation of the output current is 10-90% of the rated value.Output voltage setting range: 10-100%, local sampling.				
Constant Current Mode (CC Mode)						
Output Range Can Be Set	A	0- Rated output value				
Input Adjustment Rate	mA	0.05% of rated output current (AC input 380V ± 15%, constant load)				
Load Adjustment Rate	mA	0.08% of rated output current (no-load to full load, constant input voltage)				
Ripple Effective Value rms (3Hz-300kHz)	mArms	10	10	10	15	10

Programming And Readback Accuracy & Resolution

Voltage Output Programming Accuracy	0.05% of the rated output voltage, measured at the telemetry point
Current Output Programming Accuracy (10%~100%) ①	0.1% of the output current + 0.05% of the 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	0.001V ($\leq$ 60V), 0.01V ($\leq$ 600V), 0.1V ($>$ 600V)
Current Setting Resolution	0.001A ($\leq$ 60A), 0.01A ($\leq$ 600A), 0.1A ($>$ 600A)
Voltage Output Read-Back Accuracy	0.05% of the rated output voltage
Current Output Read-Back Accuracy (10%~100%) ①	0.1% of the output current + 0.05% of the 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 Read Back Resolution	0.00001V ($\leq$ 10V), 0.0001V ($\leq$ 100V), 0.001V (100V<U $\leq$ 1000V), 0.01V ($>$ 1000V)
Current Read Back Resolution	0.00001A ($\leq$ 10A), 0.0001A ($\leq$ 100A), 0.001A (100A< I $\leq$ 1000A)

Stability And Temperature Coefficient

Temperature Drift	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	U: 50ppm/°C I: 70ppm/°C (30 minutes after power on)

Note:

① When the current output is within the range of 1% to 10%, the accuracy is 0.1% RD + 0.1% RG.

HY-PMSU Series Technical Parameters

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	Beyond the limit output immediately off
OPP Overpower Protection	10-110%, beyond the limit output immediately off

Environmental Condition

Environment	Indoor use; Installation overvoltage class: II; Pollution level: P2; Class II equipment
Operating Ambient Temperature	0°C to 50°C, optional -10°C to 50°C, -20°C to 50°C, -40°C to 50°C
Storage Ambient Temperature	-20°C to 65°C
Working Ambient Humidity	20%-90% RH, no dew formation, continuous operation
Storage Environment Humidity	10% - 95% RH, no dew formation
Altitude Above Sea Level	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 1m to weighted measurement

Control Panel

Display	4 inch LCD display, touch screen
Control Function	Digital key input, multi-stage adjustment knob (outer ring coarse adjustment/inner ring fine adjustment), output ON/OFF switch, Lock keyboard and touch lock, Reset Restart status indicator (Shift/Local/Remote/Alarm/Lock/Output)
Programming Function	Step, Ladder, Gradient

Input Power Supply

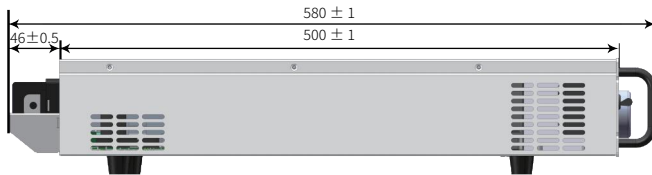
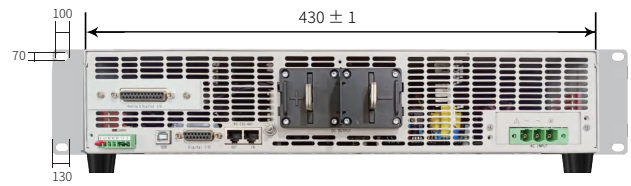
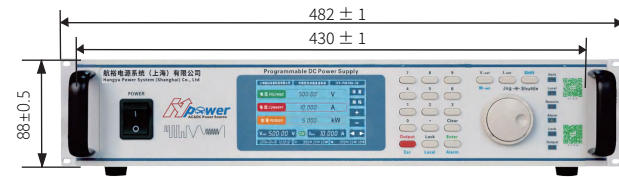
Frequency	47Hz - 63Hz
Connection Mode	Single-phase two-wire + ground wire, 220V ± 15% Three-phase three-wire + ground wire, 380V ± 15% (-3P standard configuration model)
Power Factor (Typical Value)	0.99(single-phase input) / 0.94(three-phase input)

Size And Weight

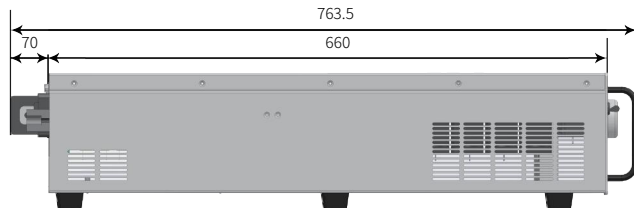
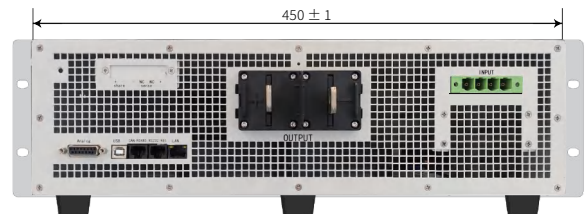
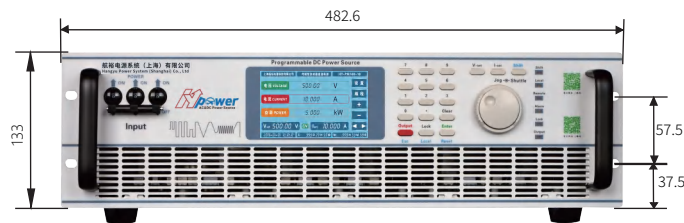
Size	2U model: 430(W) * 500(D) * 88(H) mm 3U model: 450(W) * 660(D) * 133(H) mm
Weight	About 15kg/2U; About 45kg/3U
Colour	RAL 7035

Appearance & Size

2U model 430(W) * 500(D) * 88(H) mm

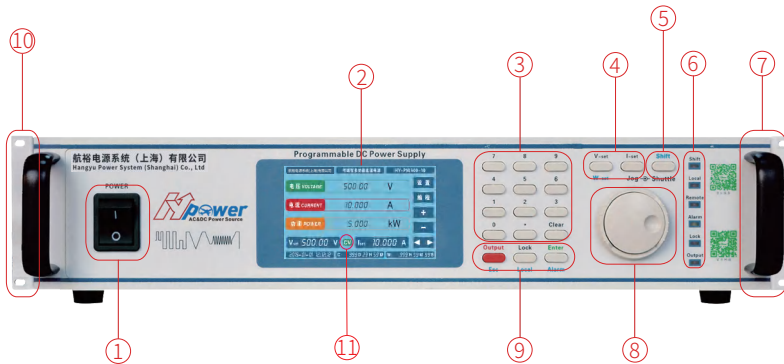


3U model 450(W) * 660(D) * 133(H) mm



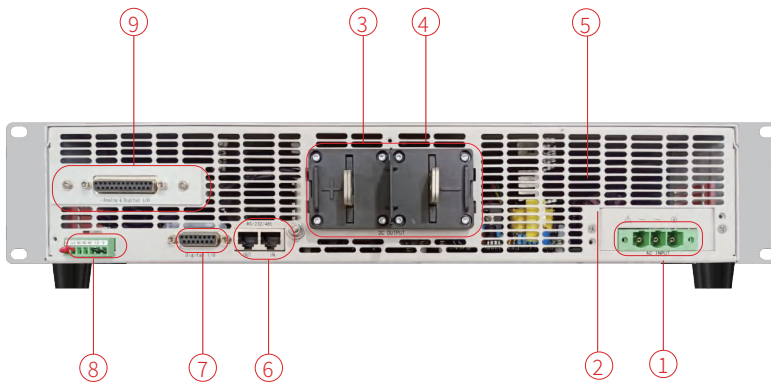
Display & Control Panel

Control Panel



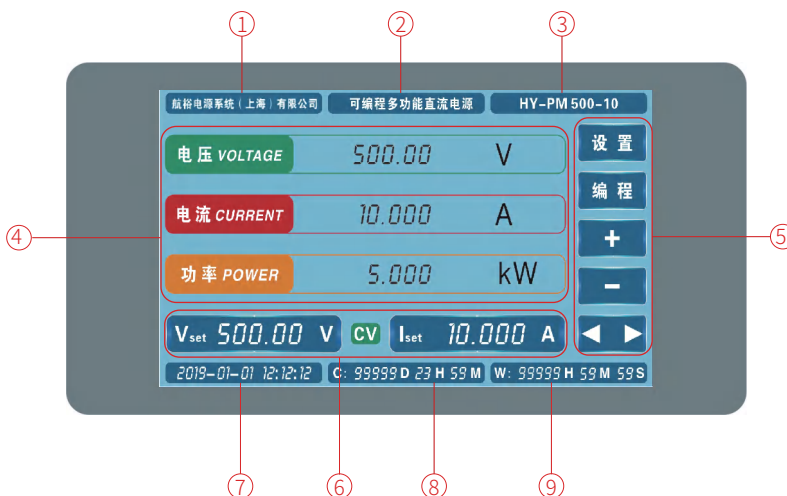
- ① Power input circuit breaker (2U single-phase, 3U three-phase)
- ② LCD display (4-inch, touch screen)
- ③ Number input keyboard
- ④ Voltage/current setting key
- ⑤ Shift Function reset key
- ⑥ Status indicator light
- ⑦ Chassis handle
- ⑧ Multi-stage adjustment knob (inner circle fine adjustment/outer circle coarse adjustment)
- ⑨ Lock, Enter, Esc, Local, Reset, Output ON/OFF
- ⑩ 19 inch standard rack mounting holes
- ⑪ CC/CV can be set preferentially

Rear Panel



- ① AC input terminal
- ② AC input terminal protective cover
- ③ Output copper bar
- ④ DC output terminal protective cover
- ⑤ Heat dissipation air outlet
- ⑥ RS-485 & RS-232 communication interface
- ⑦ Digital I/O communication interface
- ⑧ Distal compensation measuring terminal
- ⑨ Choose to buy communication interface:
 LAN & CAN communication interface
 GPIB communication interface
 Analog quantity programming and monitoring interface (isolated type)

Display Interface



- ① Manufacturer's name
- ② Product name
- ③ Product series
- ④ Voltage/current/power read back display area
- ⑤ Function setting area
- ⑥ Voltage/Current Setpoints&CV/CC Status
- ⑦ Current time
- ⑧ Accumulated running time
- ⑨ This run time

Programmable Function

Programmable Functions Are Introduced



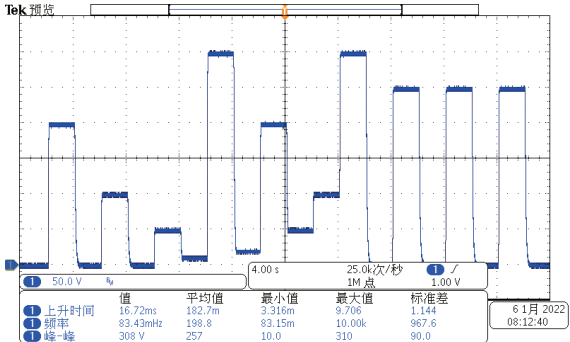
Home page



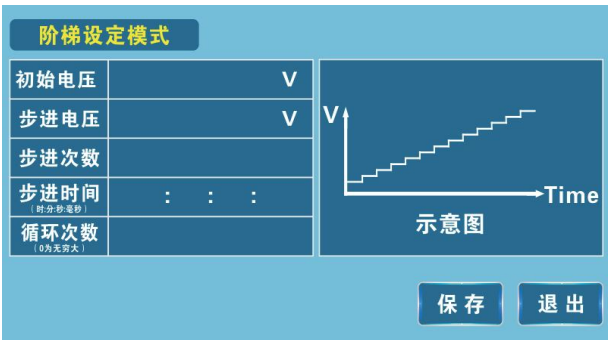
Click on the required functionality key, enter the corresponding Settings page



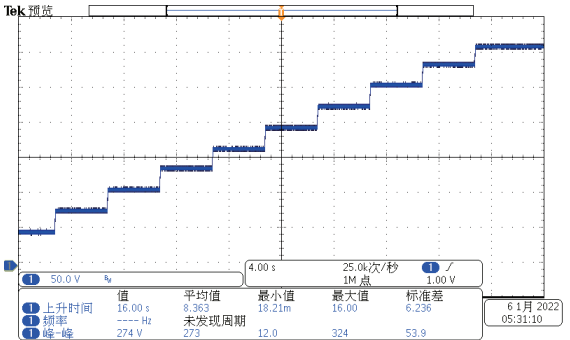
The step setting page allows you to set the required voltage, current, run time, initial step, end step, and number of cycles.



Step



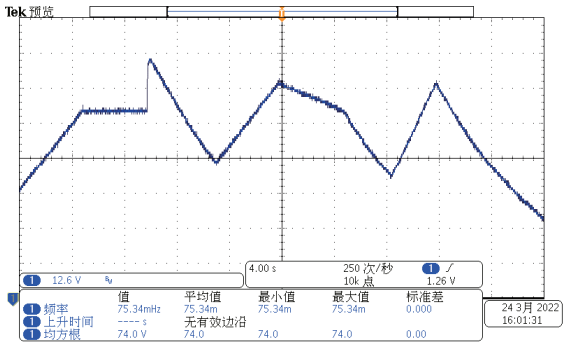
The ladder setting page can set the required initial voltage, stepping voltage, stepping times and stepping time.



Ladder



Gradient Settings page can set the required voltage, current, running time, initial step, end step



Gradient



Official wechat:hypower-cn



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HY-PMSU Series Product Manual, Version 08.14, August 2025

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: