

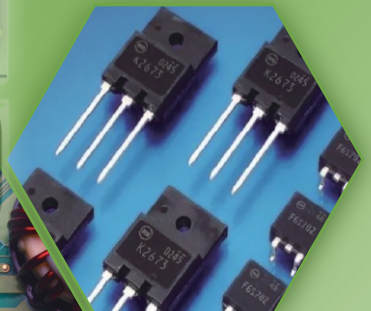
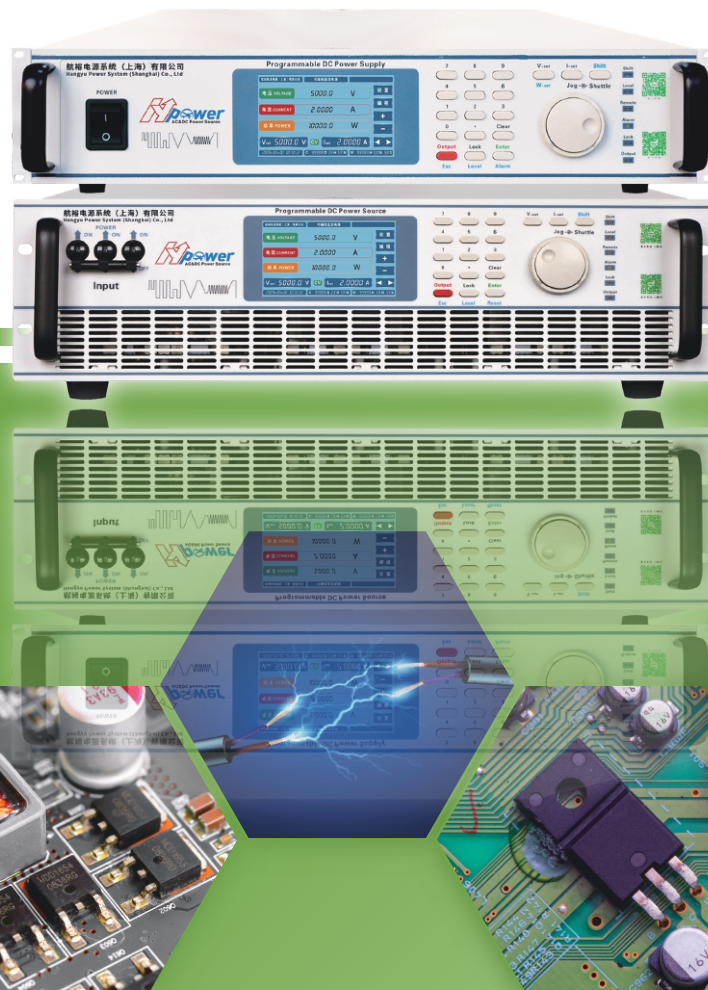


Hangyu Power System (Shanghai) Co., Ltd.

HY-HVSU Series

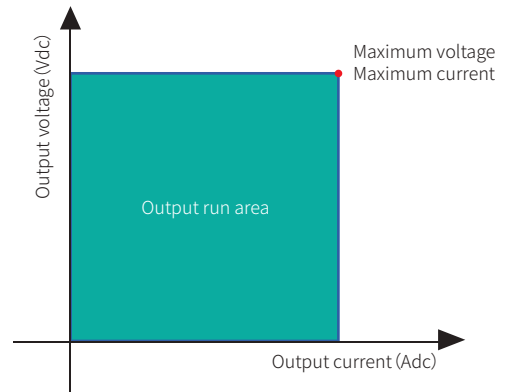
Programmable High Voltage DC Power Supply

Military Quality Power Supply Expert



HY-HVSU Series Programmable High Voltage DC Power Supply

High voltage, High power, High precision



This is a high voltage, high power, high precision test power supply. This series of power supplies offers a wide range of selectable output voltages, with a maximum of up to 200kV. It also supports multiple programming functions, is equipped with various protection features, enables remote control and automated test and is compatible with multiple communication interfaces.

Product Features

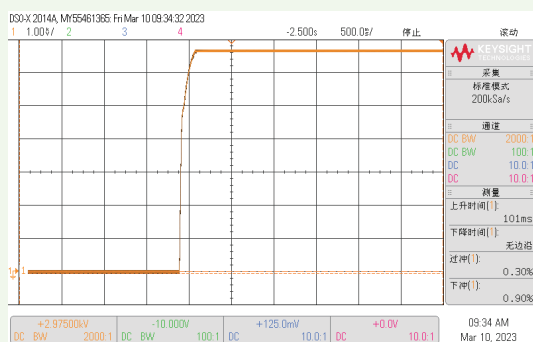
- Output voltage models are 2kV, 3kV, 4kV, 5kV, 6kV, 8kV, 10kV, 15kV, 20kV, 30kV.....200kV, etc
- High power density: single machine maximum 150kW
- Positive polarity, negative polarity, reversible polarity output
- 16-bit D/A high precision converter, accurate output
- 20-bit A/D high precision converter, more accurate read back

Application Field

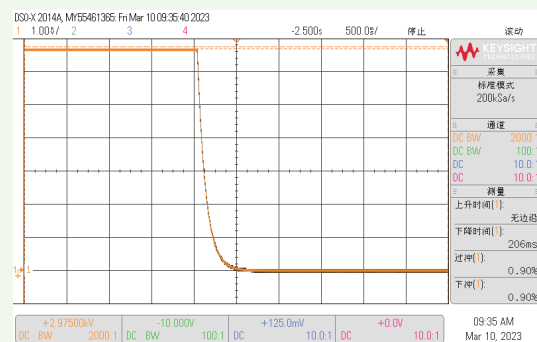
It is often used for high-voltage power supply of power semiconductor devices, the voltage is up to 200kV, and the power semiconductor devices such as IGBT, MOS tube, diode, third-generation semiconductors (SiC, GaN, etc.) are tested for voltage resistance and breakdown.

- | | |
|-----------------------------------|--|
| ■ Semiconductor process | ■ Diode reverse bias test |
| ■ High voltage capacitor charging | ■ Breakdown test of high voltage devices |
| ■ Electrostatic electret | ■ High voltage insulation test |
| ■ X-ray system | ■ Electrostatic application |
| ■ Ion beam | ■ Electron accelerator |
| ■ Electron beam | ■ Laser |
| ■ High energy physics research | ■ Industrial Applications |
| ■ Power semiconductor test | ■ Scientific experiments |

Actual Test Waveform



HY-HVSU 10kV-50mA Full load rise time: 101ms



HY-HVSU 10kV-50mA Full load descent time: 206ms

HY-HVSU Series Product Selection Table

Product Model Naming Rules

Product Series		Output Voltage		Output Current		Choose And Buy Function		Choose And Buy Function			
HY-HVSU		2kV		-		5000		-		CF	
Example of model selection: Product model: HY-HVSU 2kV-5000-CF Maximum output voltage 2000V, maximum output current 5000mA, Custom features that users choose to purchase Instructions: 1. 2kV~200kV models offer optional positive polarity, negative polarity, and reversible polarity; 10kV~200kV models cannot achieve reversible positive and negative polarity switching internally; Among these, the reversible polarity is choose to purchase; 2. There may be restrictions in multiple optional combinations. For specific details, please contact Hangyu Power.								- SG : Suspension grounding - T1 : Operating temperature -10°C to 50°C - T2 : Operating temperature -20°C to 50°C - CF : User defined features (please specify when ordering)			

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

HY-HVSU Series Product Model Selection And Parameters

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

2kV Series Power Supply Model Selection

Models	Output Current	Output Power	Models	Output Current	Output Power	Models	Output Current	Output Power
HY-HVSU 2kV-500	500mA	1kW	HY-HVSU 2kV-7500	7500mA	15kW	HY-HVSU 2kV-30A	30A	60kW
HY-HVSU 2kV-1000	1000mA	2kW	HY-HVSU 2kV-10A	10A	20kW	HY-HVSU 2kV-35A	35A	70kW
HY-HVSU 2kV-1500	1500mA	3kW	HY-HVSU 2kV-12.5A	12.5A	25kW	HY-HVSU 2kV-40A	40A	80kW
HY-HVSU 2kV-2000	2000mA	4kW	HY-HVSU 2kV-15A	15A	30kW	HY-HVSU 2kV-45A	45A	90kW
HY-HVSU 2kV-2500	2500mA	5kW	HY-HVSU 2kV-17.5A	17.5A	35kW	HY-HVSU 2kV-50A	50A	100kW
HY-HVSU 2kV-3000	3000mA	6kW	HY-HVSU 2kV-20A	20A	40kW	HY-HVSU 2kV-55A	55A	110kW
HY-HVSU 2kV-4000	4000mA	8kW	HY-HVSU 2kV-22.5A	22.5A	45kW	HY-HVSU 2kV-65A	65A	130kW
HY-HVSU 2kV-5000	5000mA	10kW	HY-HVSU 2kV-25A	25A	50kW	HY-HVSU 2kV-75A	75A	150kW

3kV Series Power Supply Model Selection

Models	Output Current	Output Power	Models	Output Current	Output Power	Models	Output Current	Output Power
HY-HVSU 3kV-334	334mA	1kW	HY-HVSU 3kV-5000	5000mA	15kW	HY-HVSU 3kV-20A	20A	60kW
HY-HVSU 3kV-667	667mA	2kW	HY-HVSU 3kV-6667	6667mA	20kW	HY-HVSU 3kV-23.4A	23.4A	70kW
HY-HVSU 3kV-1000	1000mA	3kW	HY-HVSU 3kV-8350	8350mA	25kW	HY-HVSU 3kV-26.7A	26.7A	80kW
HY-HVSU 3kV-1334	1334mA	4kW	HY-HVSU 3kV-10A	10A	30kW	HY-HVSU 3kV-30A	30A	90kW
HY-HVSU 3kV-1667	1667mA	5kW	HY-HVSU 3kV-11.7A	11.7A	35kW	HY-HVSU 3kV-33.4A	33.4A	100kW
HY-HVSU 3kV-2000	2000mA	6kW	HY-HVSU 3kV-13.4A	13.4A	40kW	HY-HVSU 3kV-36.7A	36.7A	110kW
HY-HVSU 3kV-2667	2667mA	8kW	HY-HVSU 3kV-15A	15A	45kW	HY-HVSU 3kV-43.4A	43.4A	130kW
HY-HVSU 3kV-3334	3334mA	10kW	HY-HVSU 3kV-16.7A	16.7A	50kW	HY-HVSU 3kV-50A	50A	150kW

HY-HVSU Series Product Selection Table

4kV Series Power Supply Model Selection

Models	Output Current	Output Power	Models	Output Current	Output Power	Models	Output Current	Output Power
HY-HVSU 4kV-250	250mA	1kW	HY-HVSU 4kV-3750	3750mA	15kW	HY-HVSU 4kV-15A	15A	60kW
HY-HVSU 4kV-500	500mA	2kW	HY-HVSU 4kV-5000	5000mA	20kW	HY-HVSU 4kV-17.5A	17.5A	70kW
HY-HVSU 4kV-750	750mA	3kW	HY-HVSU 4kV-6250	6250mA	25kW	HY-HVSU 4kV-20A	20A	80kW
HY-HVSU 4kV-1000	1000mA	4kW	HY-HVSU 4kV-7500	7500mA	30kW	HY-HVSU 4kV-22.5A	22.5A	90kW
HY-HVSU 4kV-1250	1250mA	5kW	HY-HVSU 4kV-8750	8750mA	35kW	HY-HVSU 4kV-25A	25A	100kW
HY-HVSU 4kV-1500	1500mA	6kW	HY-HVSU 4kV-10A	10A	40kW	HY-HVSU 4kV-27.5A	27.5A	110kW
HY-HVSU 4kV-2000	2000mA	8kW	HY-HVSU 4kV-11.3A	11.3A	45kW	HY-HVSU 4kV-32.5A	32.5A	130kW
HY-HVSU 4kV-2500	2500mA	10kW	HY-HVSU 4kV-12.5A	12.5A	50kW	HY-HVSU 4kV-37.5A	37.5A	150kW

5kV Series Power Supply Model Selection

Models	Output Current	Output Power	Models	Output Current	Output Power	Models	Output Current	Output Power
HY-HVSU 5kV-200	200mA	1kW	HY-HVSU 5kV-3000	3000mA	15kW	HY-HVSU 5kV-12A	12A	60kW
HY-HVSU 5kV-400	400mA	2kW	HY-HVSU 5kV-4000	4000mA	20kW	HY-HVSU 5kV-14A	14A	70kW
HY-HVSU 5kV-600	600mA	3kW	HY-HVSU 5kV-5000	5000mA	25kW	HY-HVSU 5kV-16A	16A	80kW
HY-HVSU 5kV-800	800mA	4kW	HY-HVSU 5kV-6000	6000mA	30kW	HY-HVSU 5kV-18A	18A	90kW
HY-HVSU 5kV-1000	1000mA	5kW	HY-HVSU 5kV-7000	7000mA	35kW	HY-HVSU 5kV-20A	20A	100kW
HY-HVSU 5kV-1200	1200mA	6kW	HY-HVSU 5kV-8000	8000mA	40kW	HY-HVSU 5kV-22A	22A	110kW
HY-HVSU 5kV-1600	1600mA	8kW	HY-HVSU 5kV-9000	9000mA	45kW	HY-HVSU 5kV-26A	26A	130kW
HY-HVSU 5kV-2000	2000mA	10kW	HY-HVSU 5kV-10A	10A	50kW	HY-HVSU 5kV-30A	30A	150kW

6kV Series Power Supply Model Selection

Models	Output Current	Output Power	Models	Output Current	Output Power	Models	Output Current	Output Power
HY-HVSU 6kV-167	167mA	1kW	HY-HVSU 6kV-2500	2500mA	15kW	HY-HVSU 6kV-10A	10A	60kW
HY-HVSU 6kV-334	334mA	2kW	HY-HVSU 6kV-3334	3334mA	20kW	HY-HVSU 6kV-11.7A	11.7A	70kW
HY-HVSU 6kV-500	500mA	3kW	HY-HVSU 6kV-4167	4167mA	25kW	HY-HVSU 6kV-13.4A	13.4A	80kW
HY-HVSU 6kV-667	667mA	4kW	HY-HVSU 6kV-5000	5000mA	30kW	HY-HVSU 6kV-15A	15A	90kW
HY-HVSU 6kV-834	834mA	5kW	HY-HVSU 6kV-5850	5850mA	35kW	HY-HVSU 6kV-16.7A	16.7A	100kW
HY-HVSU 6kV-1000	1000mA	6kW	HY-HVSU 6kV-6667	6667mA	40kW	HY-HVSU 6kV-18.4A	18.4A	110kW
HY-HVSU 6kV-1334	1334mA	8kW	HY-HVSU 6kV-7500	7500mA	45kW	HY-HVSU 6kV-21.7A	21.7A	130kW
HY-HVSU 6kV-1667	1667mA	10kW	HY-HVSU 6kV-8400	8400mA	50kW	HY-HVSU 6kV-25A	25A	150kW

8kV Series Power Supply Model Selection

Models	Output Current	Output Power	Models	Output Current	Output Power	Models	Output Current	Output Power
HY-HVSU 8kV-125	125mA	1kW	HY-HVSU 8kV-1875	1875mA	15kW	HY-HVSU 8kV-7.5A	7.5A	60kW
HY-HVSU 8kV-250	250mA	2kW	HY-HVSU 8kV-2500	2500mA	20kW	HY-HVSU 8kV-8.75A	8.75A	70kW
HY-HVSU 8kV-375	375mA	3kW	HY-HVSU 8kV-3125	3125mA	25kW	HY-HVSU 8kV-10A	10A	80kW
HY-HVSU 8kV-500	500mA	4kW	HY-HVSU 8kV-3750	3750mA	30kW	HY-HVSU 8kV-11.25A	11.25A	90kW
HY-HVSU 8kV-625	625mA	5kW	HY-HVSU 8kV-4375	4375mA	35kW	HY-HVSU 8kV-12.5A	12.5A	100kW
HY-HVSU 8kV-750	750mA	6kW	HY-HVSU 8kV-5000	5000mA	40kW	HY-HVSU 8kV-13.75A	13.75A	110kW
HY-HVSU 8kV-1000	1000mA	8kW	HY-HVSU 8kV-5625	5625mA	45kW	HY-HVSU 8kV-16.25A	16.25A	130kW
HY-HVSU 8kV-1250	1250mA	10kW	HY-HVSU 8kV-6250	6250mA	50kW	HY-HVSU 8kV-18.75A	18.75A	150kW

HY-HVSU Series Product Selection Table

10kV Series Power Supply Model Selection

Models	Output Current	Output Power	Models	Output Current	Output Power	Models	Output Current	Output Power
HY-HVSU 10kV-100	100mA	1kW	HY-HVSU 10kV-1500	1500mA	15kW	HY-HVSU 10kV-6A	6A	60kW
HY-HVSU 10kV-200	200mA	2kW	HY-HVSU 10kV-2000	2000mA	20kW	HY-HVSU 10kV-7A	7A	70kW
HY-HVSU 10kV-300	300mA	3kW	HY-HVSU 10kV-2500	2500mA	25kW	HY-HVSU 10kV-8A	8A	80kW
HY-HVSU 10kV-400	400mA	4kW	HY-HVSU 10kV-3000	3000mA	30kW	HY-HVSU 10kV-9A	9A	90kW
HY-HVSU 10kV-500	500mA	5kW	HY-HVSU 10kV-3500	3500mA	35kW	HY-HVSU 10kV-10A	10A	100kW
HY-HVSU 10kV-600	600mA	6kW	HY-HVSU 10kV-4000	4000mA	40kW	HY-HVSU 10kV-11A	11A	110kW
HY-HVSU 10kV-800	800mA	8kW	HY-HVSU 10kV-4500	4500mA	45kW	HY-HVSU 10kV-13A	13A	130kW
HY-HVSU 10kV-1000	1000mA	10kW	HY-HVSU 10kV-5000	5000mA	50kW	HY-HVSU 10kV-15A	15A	150kW

15kV Series Power Supply Model Selection

Models	Output Voltage	Output Current	Output Power	Models	Output Voltage	Output Current	Output Power
HY-HVSU 15kV-67	15kV	67mA	1kW	HY-HVSU 15kV-1000	15kV	1000mA	15kW
HY-HVSU 15kV-134	15kV	134mA	2kW	HY-HVSU 15kV-1334	15kV	1334mA	20kW
HY-HVSU 15kV-200	15kV	200mA	3kW	HY-HVSU 15kV-1667	15kV	1667mA	25kW
HY-HVSU 15kV-267	15kV	267mA	4kW	HY-HVSU 15kV-2000	15kV	2000mA	30kW
HY-HVSU 15kV-334	15kV	334mA	5kW	HY-HVSU 15kV-2334	15kV	2334mA	35kW
HY-HVSU 15kV-400	15kV	400mA	6kW	HY-HVSU 15kV-2667	15kV	2667mA	40kW
HY-HVSU 15kV-534	15kV	534mA	8kW	HY-HVSU 15kV-3000	15kV	3000mA	45kW
HY-HVSU 15kV-667	15kV	667mA	10kW	HY-HVSU 15kV-3334	15kV	3334mA	50kW

20kV Series Power Supply Model Selection

Models	Output Voltage	Output Current	Output Power	Models	Output Voltage	Output Current	Output Power
HY-HVSU 20kV-50	20kV	50mA	1kW	HY-HVSU 20kV-750	20kV	750mA	15kW
HY-HVSU 20kV-100	20kV	100mA	2kW	HY-HVSU 20kV-1000	20kV	1000mA	20kW
HY-HVSU 20kV-150	20kV	150mA	3kW	HY-HVSU 20kV-1250	20kV	1250mA	25kW
HY-HVSU 20kV-200	20kV	200mA	4kW	HY-HVSU 20kV-1500	20kV	1500mA	30kW
HY-HVSU 20kV-250	20kV	250mA	5kW	HY-HVSU 20kV-1750	20kV	1750mA	35kW
HY-HVSU 20kV-300	20kV	300mA	6kW	HY-HVSU 20kV-2000	20kV	2000mA	40kW
HY-HVSU 20kV-400	20kV	400mA	8kW	HY-HVSU 20kV-2250	20kV	2250mA	45kW
HY-HVSU 20kV-500	20kV	500mA	10kW	HY-HVSU 20kV-2500	20kV	2500mA	50kW

30kV Series Power Supply Model Selection

Models	Output Voltage	Output Current	Output Power	Models	Output Voltage	Output Current	Output Power
HY-HVSU 30kV-34	30kV	34mA	1kW	HY-HVSU 30kV-500	30kV	500mA	15kW
HY-HVSU 30kV-67	30kV	67mA	2kW	HY-HVSU 30kV-667	30kV	667mA	20kW
HY-HVSU 30kV-100	30kV	100mA	3kW	HY-HVSU 30kV-834	30kV	834mA	25kW
HY-HVSU 30kV-167	30kV	167mA	5kW	HY-HVSU 30kV-1000	30kV	1000mA	30kW
HY-HVSU 30kV-200	30kV	200mA	6kW	HY-HVSU 30kV-1167	30kV	1167mA	35kW
HY-HVSU 30kV-250	30kV	250mA	7.5kW	HY-HVSU 30kV-1340	30kV	1340mA	40kW
HY-HVSU 30kV-267	30kV	267mA	8kW	HY-HVSU 30kV-1500	30kV	1500mA	45kW
HY-HVSU 30kV-340	30kV	340mA	10kW	HY-HVSU 30kV-1670	30kV	1670mA	50kW

HY-HVSU Series Product Selection Table

50kV Series Power Supply Model Selection

Models	Output Voltage	Output Current	Output Power
HY-HVSU 50kV-20	50kV	20mA	1kW
HY-HVSU 50kV-40	50kV	40mA	2kW
HY-HVSU 50kV-60	50kV	60mA	3kW
HY-HVSU 50kV-80	50kV	80mA	4kW
HY-HVSU 50kV-100	50kV	100mA	5kW
HY-HVSU 50kV-120	50kV	120mA	6kW
HY-HVSU 50kV-160	50kV	160mA	8kW
HY-HVSU 50kV-200	50kV	200mA	10kW

Models	Output Voltage	Output Current	Output Power
HY-HVSU 50kV-300	50kV	300mA	15kW
HY-HVSU 50kV-400	50kV	400mA	20kW
HY-HVSU 50kV-500	50kV	500mA	25kW
HY-HVSU 50kV-600	50kV	600mA	30kW
HY-HVSU 50kV-700	50kV	700mA	35kW
HY-HVSU 50kV-800	50kV	800mA	40kW
HY-HVSU 50kV-900	50kV	900mA	45kW
HY-HVSU 50kV-1000	50kV	1000mA	50kW

60kV Series Power Supply Model Selection

Models	Output Voltage	Output Current	Output Power
HY-HVSU 60kV-17	60kV	17mA	1kW
HY-HVSU 60kV-34	60kV	34mA	2kW
HY-HVSU 60kV-50	60kV	50mA	3kW
HY-HVSU 60kV-67	60kV	67mA	4kW
HY-HVSU 60kV-84	60kV	84mA	5kW
HY-HVSU 60kV-100	60kV	100mA	6kW
HY-HVSU 60kV-134	60kV	134mA	8kW
HY-HVSU 60kV-167	60kV	167mA	10kW

Models	Output Voltage	Output Current	Output Power
HY-HVSU 60kV-250	60kV	250mA	15kW
HY-HVSU 60kV-334	60kV	334mA	20kW
HY-HVSU 60kV-417	60kV	417mA	25kW
HY-HVSU 60kV-500	60kV	500mA	30kW
HY-HVSU 60kV-584	60kV	584mA	35kW
HY-HVSU 60kV-667	60kV	667mA	40kW
HY-HVSU 60kV-750	60kV	750mA	45kW
HY-HVSU 60kV-834	60kV	834mA	50kW

70kV Series Power Supply Model Selection

Models	Output Voltage	Output Current	Output Power
HY-HVSU 70kV-14.3	70kV	14.3mA	1kW
HY-HVSU 70kV-29	70kV	29mA	2kW
HY-HVSU 70kV-43	70kV	43mA	3kW
HY-HVSU 70kV-58	70kV	58mA	4kW
HY-HVSU 70kV-72	70kV	72mA	5kW
HY-HVSU 70kV-86	70kV	86mA	6kW
HY-HVSU 70kV-115	70kV	115mA	8kW
HY-HVSU 70kV-143	70kV	143mA	10kW

Models	Output Voltage	Output Current	Output Power
HY-HVSU 70kV-215	70kV	215mA	15kW
HY-HVSU 70kV-286	70kV	286mA	20kW
HY-HVSU 70kV-358	70kV	358mA	25kW
HY-HVSU 70kV-429	70kV	429mA	30kW
HY-HVSU 70kV-500	70kV	500mA	35kW
HY-HVSU 70kV-572	70kV	572mA	40kW
HY-HVSU 70kV-643	70kV	643mA	45kW
HY-HVSU 70kV-715	70kV	715mA	50kW

80kV Series Power Supply Model Selection

Models	Output Voltage	Output Current	Output Power
HY-HVSU 80kV-12.5	80kV	12.5mA	1kW
HY-HVSU 80kV-25	80kV	25mA	2kW
HY-HVSU 80kV-37.5	80kV	37.5mA	3kW
HY-HVSU 80kV-50	80kV	50mA	4kW
HY-HVSU 80kV-62.5	80kV	62.5mA	5kW
HY-HVSU 80kV-75	80kV	75mA	6kW
HY-HVSU 80kV-100	80kV	100mA	8kW
HY-HVSU 80kV-125	80kV	125mA	10kW

Models	Output Voltage	Output Current	Output Power
HY-HVSU 80kV-188	80kV	188mA	15kW
HY-HVSU 80kV-250	80kV	250mA	20kW
HY-HVSU 80kV-313	80kV	313mA	25kW
HY-HVSU 80kV-375	80kV	375mA	30kW
HY-HVSU 80kV-438	80kV	438mA	35kW
HY-HVSU 80kV-500	80kV	500mA	40kW
HY-HVSU 80kV-563	80kV	563mA	45kW
HY-HVSU 80kV-625	80kV	625mA	50kW

HY-HVSU Series Product Selection Table

100kV Series Power Supply Model Selection

Models	Output Voltage	Output Current	Output Power
HY-HVSU 100kV-10	100kV	10mA	1kW
HY-HVSU 100kV-20	100kV	20mA	2kW
HY-HVSU 100kV-30	100kV	30mA	3kW
HY-HVSU 100kV-40	100kV	40mA	4kW
HY-HVSU 100kV-50	100kV	50mA	5kW
HY-HVSU 100kV-60	100kV	60mA	6kW
HY-HVSU 100kV-80	100kV	80mA	8kW
HY-HVSU 100kV-100	100kV	100mA	10kW

Models	Output Voltage	Output Current	Output Power
HY-HVSU 100kV-150	100kV	150mA	15kW
HY-HVSU 100kV-200	100kV	200mA	20kW
HY-HVSU 100kV-250	100kV	250mA	25kW
HY-HVSU 100kV-300	100kV	300mA	30kW
HY-HVSU 100kV-350	100kV	350mA	35kW
HY-HVSU 100kV-400	100kV	400mA	40kW
HY-HVSU 100kV-450	100kV	450mA	45kW
HY-HVSU 100kV-500	100kV	500mA	50kW

120kV Series Power Supply Model Selection

Models	Output Voltage	Output Current	Output Power
HY-HVSU 120kV-8.5	120kV	8.5mA	1kW
HY-HVSU 120kV-17	120kV	17mA	2kW
HY-HVSU 120kV-25	120kV	25mA	3kW
HY-HVSU 120kV-34	120kV	34mA	4kW
HY-HVSU 120kV-42	120kV	42mA	5kW
HY-HVSU 120kV-50	120kV	50mA	6kW
HY-HVSU 120kV-67	120kV	67mA	8kW
HY-HVSU 120kV-84	120kV	84mA	10kW

Models	Output Voltage	Output Current	Output Power
HY-HVSU 120kV-125	120kV	125mA	15kW
HY-HVSU 120kV-167	120kV	167mA	20kW
HY-HVSU 120kV-209	120kV	209mA	25kW
HY-HVSU 120kV-250	120kV	250mA	30kW
HY-HVSU 120kV-292	120kV	292mA	35kW
HY-HVSU 120kV-334	120kV	334mA	40kW
HY-HVSU 120kV-375	120kV	375mA	45kW
HY-HVSU 120kV-417	120kV	417mA	50kW

150kV Series Power Supply Model Selection

Models	Output Voltage	Output Current	Output Power
HY-HVSU 150kV-7	150kV	7mA	1kW
HY-HVSU 150kV-14	150kV	14mA	2kW
HY-HVSU 150kV-20	150kV	20mA	3kW
HY-HVSU 150kV-27	150kV	27mA	4kW
HY-HVSU 150kV-34	150kV	34mA	5kW
HY-HVSU 150kV-40	150kV	40mA	6kW
HY-HVSU 150kV-54	150kV	54mA	8kW
HY-HVSU 150kV-67	150kV	67mA	10kW

Models	Output Voltage	Output Current	Output Power
HY-HVSU 150kV-100	150kV	100mA	15kW
HY-HVSU 150kV-134	150kV	134mA	20kW
HY-HVSU 150kV-167	150kV	167mA	25kW
HY-HVSU 150kV-200	150kV	200mA	30kW
HY-HVSU 150kV-234	150kV	234mA	35kW
HY-HVSU 150kV-267	150kV	267mA	40kW
HY-HVSU 150kV-300	150kV	300mA	45kW
HY-HVSU 150kV-334	150kV	334mA	50kW

200kV Series Power Supply Model Selection

Models	Output Voltage	Output Current	Output Power
HY-HVSU 200kV-5	200kV	5mA	1kW
HY-HVSU 200kV-10	200kV	10mA	2kW
HY-HVSU 200kV-15	200kV	15mA	3kW
HY-HVSU 200kV-20	200kV	20mA	4kW
HY-HVSU 200kV-25	200kV	25mA	5kW
HY-HVSU 200kV-30	200kV	30mA	6kW
HY-HVSU 200kV-40	200kV	40mA	8kW
HY-HVSU 200kV-50	200kV	50mA	10kW

Models	Output Voltage	Output Current	Output Power
HY-HVSU 200kV-75	200kV	75mA	15kW
HY-HVSU 200kV-100	200kV	100mA	20kW
HY-HVSU 200kV-125	200kV	125mA	25kW
HY-HVSU 200kV-150	200kV	150mA	30kW
HY-HVSU 200kV-175	200kV	175mA	35kW
HY-HVSU 200kV-200	200kV	200mA	40kW
HY-HVSU 200kV-225	200kV	225mA	45kW
HY-HVSU 200kV-250	200kV	250mA	50kW

HY-HVSU Series Technical Parameters

Constant Voltage Mode (CV Mode)

Voltage Output Range Can Be Set	<5kV: 0.5%~100% output value; ≥5kV: 1%~100% output value
Line Regulation Rate (CV Model)	0.05%+500mV (The input voltage changes $\pm 10\%$)
Load Regulation Rate (CV Model)	0.05%+500mV (No load to rated load)
Ripple RMS (5 Hz-20 MHz)	0.1%F.S.

Constant Current Mode (CC Mode)

Current Output Range Can Be Set	0~Rated output value
Line Regulation Rate (CC Model)	0.05% (The input voltage changes $\pm 10\%$)
Load Regulation Rate (CC Model)	0.05% $\pm 100\mu\text{A}$ (No load to rated load)

Programming And Readback Accuracy & Resolution

Voltage Output Programming Accuracy	0.1% of the rated output voltage (2kV~20kV voltage models) 0.5% of the rated output voltage (50kV~100kV voltage models) 1% of the rated output voltage (120kV~200kV voltage models)
Current Output Programming Accuracy	0.2% of output current + 0.2% of rated output current
Voltage Setting Resolution	0.1V ($\leq 6\text{kV}$), 1V ($> 6\text{kV}$)
Current setting resolution	0.1mA ($\leq 6000\text{mA}$), 1mA ($> 6000\text{mA}$)
Voltage Output Read-Back Accuracy	0.1% of the rated output voltage (2kV~20kV voltage models) 0.5% of the rated output voltage (50kV~100kV voltage models) 1% of the rated output voltage (120kV~200kV voltage models)
Current Output Read-Back Accuracy	$\pm 0.1\%$ of rated output current + $\pm 0.1\%$ of actual current
Voltage Read Back Resolution	0.01V ($\leq 10\text{kV}$), 0.1V ($> 10\text{kV}$)
Current Read Back Resolution	0.01mA ($\leq 10000\text{mA}$), 0.1mA ($> 10000\text{mA}$)

Stability And Temperature Coefficient

Stability (Rated Output Voltage/Current)	U:0.05% I:0.05% (After 30 minutes of power on at a certain input voltage and load ambient temperature, 8 hours)
Temperature Coefficient (Rated Output Voltage/Current)	U:200ppm/°C I: 300ppm/°C (30 minutes after power on)

Protection Function

OVP Overvoltage Protection Setting Range	10~110%, beyond the limit output immediately off
OCP Overcurrent Protection Setting Range	0~105%, beyond the limit output immediately off
OTP Overtemperature Protection	Beyond the limit output immediately off
OPP Overpower Protection	10~110%, beyond the limit output immediately off

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

HY-HVSU Series Technical Parameters

Environmental Condition

Environment	Indoor use; Installation overvoltage class: II; Pollution level: P2; Class II equipment
Operating Ambient Temperature	0°C~50°C, optional -10°C~50°C, -20°C~50°C
Storage Ambient Temperature	-20°C~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 1 m to weighted measurement

Control Panel

Display	4/7 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)

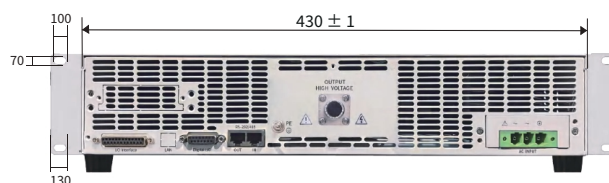
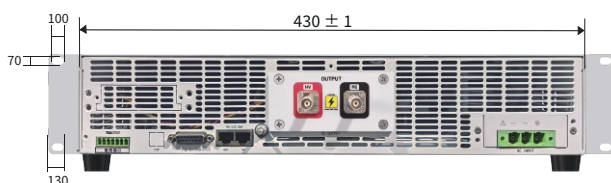
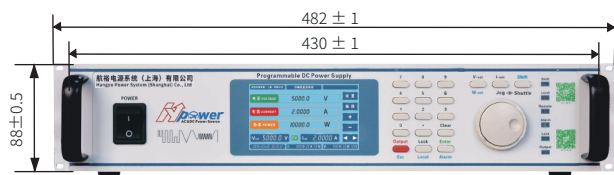
Size And Weight

Size	2U model: 430(W) * 500(D) * 88(H) mm 3U model: 450(W) * 660(D) * 133(H) mm 4U model: 433(W)*560(D)*177(H)mm 10U model:440(W)*600(D)*445(H)mm 18U model:600(W)*800(D)*920(H)mm Please select the model according to the voltage and power of the machine. For more details, please contact Hangyu Power.
Weight	About 15kg/2U; About 45kg/3U
Colour	RAL 7035

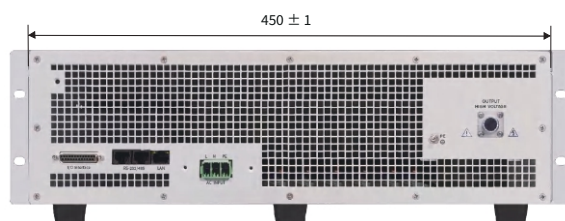
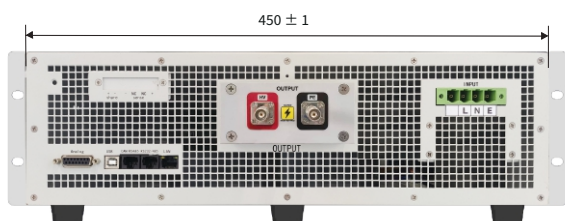
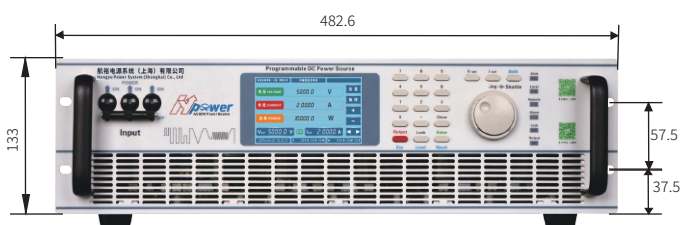
** All technical indicators can only be guaranteed when the equipment runs continuously for more than 30 minutes at the specified operating temperature.*

Appearance & Size

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



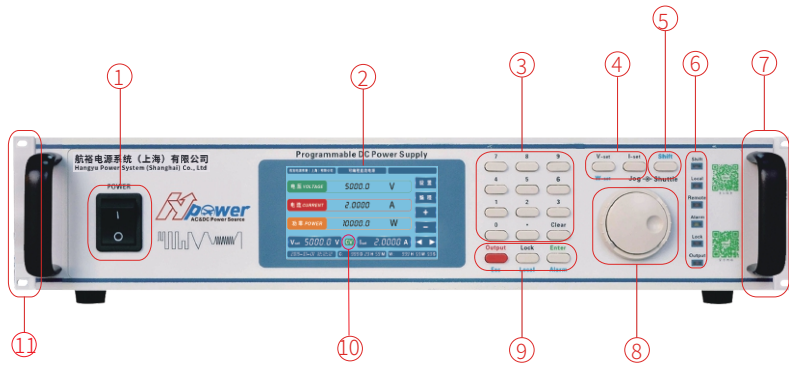
3U model 450(W) * 660(D) * 133(H) mm



Note: The size of the models vary according to different voltages and powers. For specific selection and size, please contact Hangyu Power.

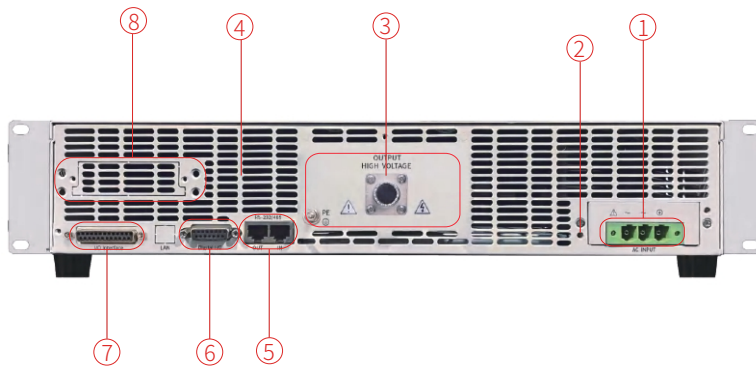
Display & Control Panel

Control Panel



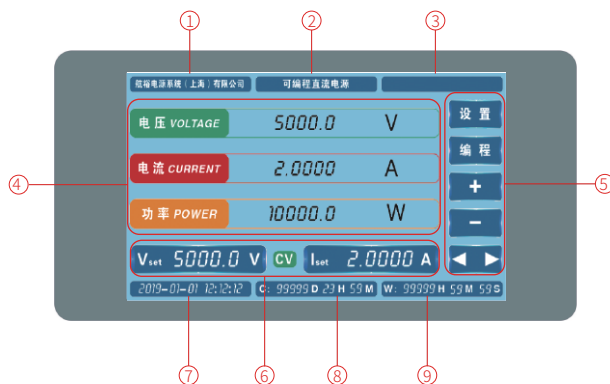
- ① Power input circuit breaker (2U single-phase, 3U three-phase)
- ② LCD display (4-inch, touch screen)
- ③ Number input keyboard
- ④ Voltage/current setting key
- ⑤ Shift Function reset key
- ⑥ Status indicator light
- ⑦ Chassis handle
- ⑧ Multi-stage adjustment knob (inner circle fine adjustment/outer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

Rear Panel



- ① AC input terminal
- ② Input guard cover
- ③ Output interface (BNC interface and high voltage interface are optional)
- ④ Heat dissipation air outlet
- ⑤ RS-485 & RS-232 communication interface
- ⑥ Digital I/O communication interface
- ⑦ Remote compensation measurement terminal
- ⑧ 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 Current running time

Programmable Function

Introduction to Programmable Functions



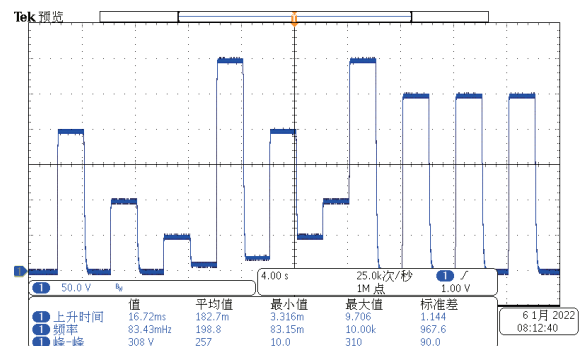
Home page



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



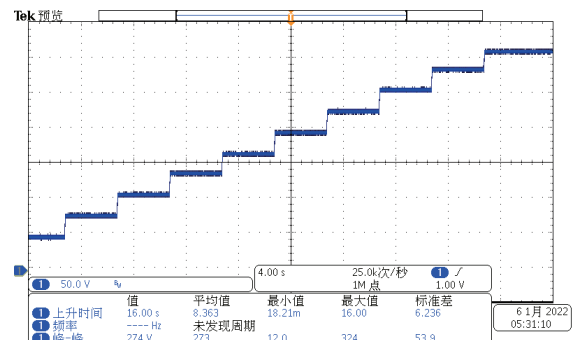
The step setting page allows you to set the required voltage, current, run time, initial step, end step, and number of cycles.



Step



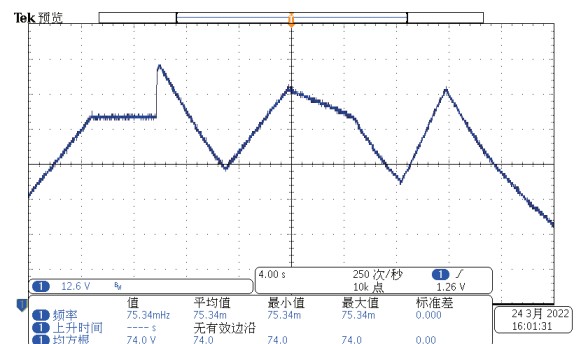
The ladder setting page can set the required initial voltage, stepping voltage, stepping times and stepping time.



Ladder



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



Gradient



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HY-HVSU Series Product Manual, Version 08.15, November 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:

