

簡介

HV 系列高壓直流電源，輸出電壓範圍為 10kV 至 200kV。輸出控制可在遠端控制和本地控制之間切換。輸出顯示和輸出指示燈直接位於前面板上，並可引導至外部遠端顯示器。高壓輸出端具有過電流、過電壓、短路保護和電弧保護。

HV 系列廣泛應用於靜電應用，如靜電除塵、靜電紡絲、靜電分離、靜電噴塗、靜電植絨等。

HV 系列還可用於高壓絕緣測試、材料分選、金屬老化、高壓去毛邊和實驗室測試。

特點

- ✓ 輸出電壓全範圍可調
- ✓ 正輸出+10kV 至+200kV
- ✓ 負輸出-10kV 至-200kV
- ✓ 4 位數 LED 電壓、電流顯示
- ✓ 低 EMI，抗干擾能力強
- ✓ OVP、OCP、ARC 和短路保護
- ✓ 0-10V 類比控制電壓、電流輸出

應用領域

- ✓ 熔噴布靜電駐極設備
- ✓ 靜電紡絲
- ✓ 靜電除塵
- ✓ 電容器充放電
- ✓ 電纜老化測試、電纜漏電測試
- ✓ 光纖耐壓測試

HV 系列高壓直流電源



Product Photos (500W frame)



⚠ DANGER ⚠
HIGH VOLTAGE
HAZARDOUS VOLTAGE PRESENT TO
REDUCE THE RISK OF ELECTRIC
SHOCK DO NOT REMOVE COVERS OR
CABLES UNTIL 5 MINUTES HAVE
ELAPSED AFTER TURNING OFF
EQUIPMENT. FAILURE TO COMPLY
MAY CAUSE SEVERE INJURY OR DEATH

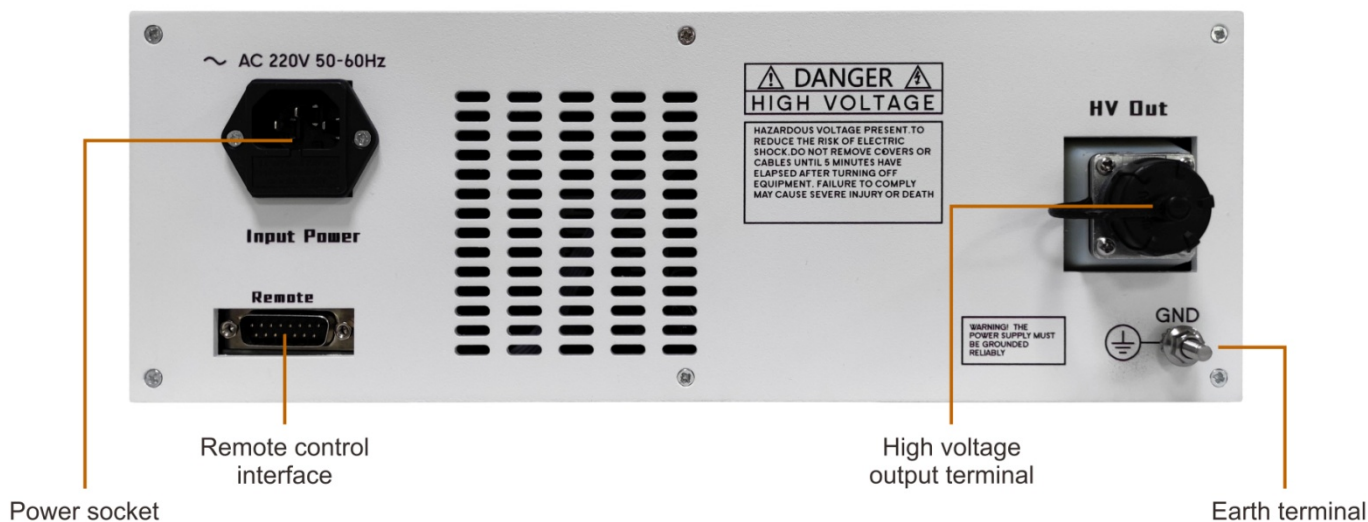
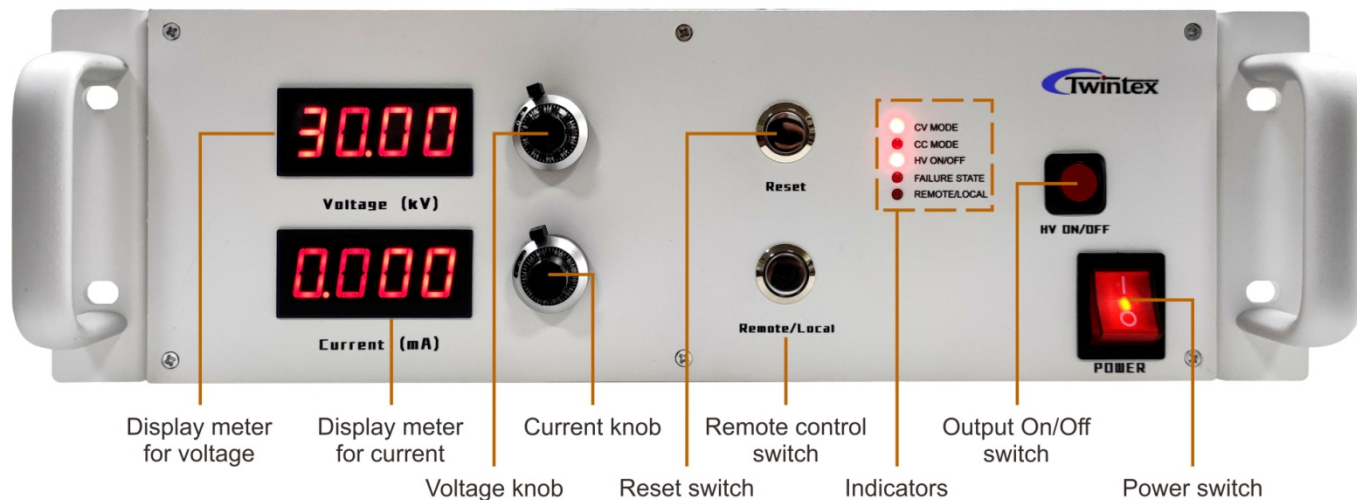
HV DC POWER SUPPLY
MODEL: HV30P-10
OUTPUT: + 30kV \pm 10mA
INPUT: 220V \sim 50/60Hz
For Indoor Use Only
Serial No.: 2024HV010002

WARNING! THE
POWER SUPPLY MUST
BE GROUNDED
RELIABLY

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Panel Descriptions (500W)

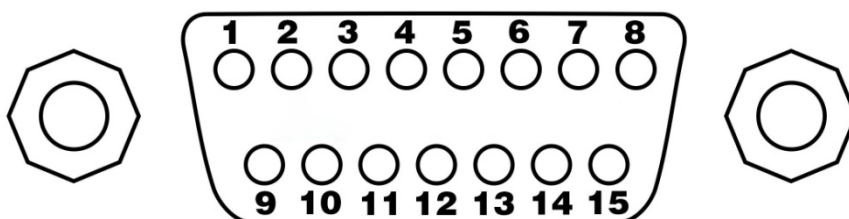


Specifications

Output		
Rated Voltage	Full range adjustable	
Rated Current	Full range adjustable (except 1mA models)	
Line Regulation	CV≤0.1%FS	
Load Regulation	CV≤0.1%FS	
Ripple & Noise	≤0.5% FS	
High Voltage stability	≤0.1% per hour after warm-up for one hour	
Temperature co-efficient	100ppm/°C	
Display		
Meter	4 digits LED display for voltage and current	
Display	Voltage	0.01kV / 0.1kV
Resolution	Current	0.001mA / 0.01mA
Display	Voltage	≤0.1%FS+2LSB
Accuracy	Current	≤0.1%FS+2LSB
Protection		
Over Voltage Protection (O.V.P.)	Built-in OVP protection with limit of 105% rated output voltage. The output will be shut down when OVP is activated.	
Over Current Protection (O.C.P.)	Built-in OCP protection with limit of 105% rated output voltage. The output will be shut down when OCP is activated.	
Over Temperature Protection (O.T.P.)	Built-in OTP protection with heat sink temperature limit of 65°C±5°C The output will be shut down when OTP is activated.	
Short Circuit Protection	The output will be shut down when short circuit protection is activated.	
General		
Cooling method	Cooling fan	
Operating environment	0°C~40°C, 10%~80%RH	
Storage environment	-20°C~70°C, 10%~90%RH	
Input	AC220V±10% single phase, 50/60Hz	
Accessories	Input cable x1, Output cable x1, Operation manual x1	
Dimensions	376W*367H*110D mm	
Net weight	Approx 6.5kg	

For the purpose of product improvement, specifications are subject to change without prior notice.

DB15 Pin-out definition:



Pin No.	Description	Reference value	Remarks
1	Input for voltage control	0 to +10V in proportion to 0 to 100% rated output.	
2	GND		
3	Input for current control	0 to +10V in proportion to 0 to 100% rated output.	
4	GND		
5	Voltage feedback	0 to +10V in proportion to 0 to 100% rated output.	
6	GND		
7	Current feedback	0 to +10V in proportion to 0 to 100% rated output.	
8	Reset	High level $\leq 15V$	
9	Output control loop	Pin 9-10 closed = HV ON	
10	Output control loop	Pin 9-10 closed = HV ON	
11	Voltage mode status	Open collector, maximum voltage 35V, maximum current 10mA	Low level valid
12	Current mode status	Open collector, maximum voltage 35V, maximum current 10mA	Low level valid
13	Failure status	Open collector, maximum voltage 35V, maximum current 10mA	Low level valid
14	HV ON/OFF indicator	Open collector, maximum voltage 35V, maximum current 10mA	Low level valid
15	+15V	Open collector, maximum voltage 35V, maximum current 10mA	

For the purpose of product improvement, specifications are subject to change without prior notice.

Selection guide

Model (10kV)	Rated Output			Model (15kV)	Rated Output		
	V	A	W		V	A	W
HV10P-1	10KV	1mA	10W	HV15P-1	15KV	1mA	15W
HV10N-1	10KV	1mA	10W	HV15N-1	15KV	1mA	15W
HV10P-5	10KV	5mA	50W	HV15P-2	15KV	2mA	30W
HV10N-5	10KV	5mA	50W	HV15N-2	15KV	2mA	30W
HV10P-10	10KV	10mA	100W	HV15P-4	15KV	4mA	60W
HV10N-10	10KV	10mA	100W	HV15N-4	15KV	4mA	60W
HV10P-15	10KV	15mA	150W	HV15P-6.67	15KV	6.67mA	100W
HV10N-15	10KV	15mA	150W	HV15N-6.67	15KV	6.67mA	100W
HV10P-20	10KV	20mA	200W	HV15P-10	15KV	10mA	150W
HV10N-20	10KV	20mA	200W	HV15N-10	15KV	10mA	150W
HV10P-30	10KV	30mA	300W	HV15P-20	15KV	20mA	300W
HV10N-30	10KV	30mA	300W	HV15N-20	15KV	20mA	300W

Model (20kV)	Rated Output			Model (30kV)	Rated Output		
	V	A	W		V	A	W
HV20P-1	20KV	1mA	20W	HV30P-0.33	30KV	0.33mA	10W
HV20N-1	20KV	1mA	20W	HV30N-0.33	30KV	0.33mA	10W
HV20P-2	20KV	2mA	40W	HV30N-0.5	30KV	0.5mA	15W
HV20N-2	20KV	2mA	40W	HV30P-0.5	30KV	0.5mA	15W
HV20P-3	20KV	3mA	60W	HV30P-2	30KV	2mA	60W
HV20N-3	20KV	3mA	60W	HV30N-2	30KV	2mA	60W
HV20P-5	20KV	5mA	100W	HV30P-1	30KV	1mA	30W
HV20N-5	20KV	5mA	100W	HV30N-1	30KV	1mA	30W
HV20P-7.5	20KV	7.5mA	150W	HV30P-2	30KV	2mA	60W
HV20N-7.5	20KV	7.5mA	150W	HV30N-2	30KV	2mA	60W
HV20P-10	20KV	10mA	200W	HV30P-3.33	30KV	3.33mA	100W
HV20N-10	20KV	10mA	200W	HV30N-3.33	30KV	3.33mA	100W
HV20P-15	20KV	15mA	300W	HV30P-5	30KV	5mA	150W
HV20N-15	20KV	15mA	300W	HV30N-5	30KV	5mA	150W
				HV30P-10	30KV	10mA	300W
				HV30N-10	30KV	10mA	300W

Model (40kV)	Rated Output			Model (50kV)	Rated Output		
	V	A	W		V	A	W
HV40P-1	40KV	1mA	40W	HV50P-0.6	50KV	0.6mA	30W
HV40N-1	40KV	1mA	40W	HV50N-0.6	50KV	0.6mA	30W
HV40P-2.5	40KV	2.5mA	100W	HV50P-1	50KV	1mA	50W
HV40N-2.5	40KV	2.5mA	100W	HV50N-1	50KV	1mA	50W
HV40P-3.75	40KV	3.75mA	150W	HV50P-2	50KV	2mA	100W
HV40N-3.75	40KV	3.75mA	150W	HV50N-2	50KV	2mA	100W
HV40P-7.5	40KV	7.5mA	300W	HV50P-3	50KV	3mA	150W
HV40N-7.5	40KV	7.5mA	300W	HV50N-3	50KV	3mA	150W
HV40P-10	40KV	10mA	400W	HV50P-4	50KV	4mA	200W
HV40N-10	40KV	10mA	400W	HV50N-4	50KV	4mA	200W
				HV50P-10	50KV	10mA	500W
				HV50N-10	50KV	10mA	500W

Model (60kV)	Rated Output		
	V	A	W
HV60P-0.17	60KV	0.17mA	10W
HV60N-0.17	60KV	0.17mA	10W
HV60P-0.5	60KV	0.5mA	30W
HV60N-0.5	60KV	0.5mA	30W
HV60P-1	60KV	1mA	60W
HV60N-1	60KV	1mA	60W
HV60P-2	60KV	2mA	120W
HV60N-2	60KV	2mA	120W
HV60P-2.55	60KV	2.5mA	150W
HV60N-2.5	60KV	2.5mA	150W
HV60P-5	60KV	5mA	300W
HV60N-5	60KV	5mA	300W