

PHV series ESC Power Supply

Uni-polar , By-polar , and By-Polar Center Tap type $\pm 1\text{KV}$ to $\pm 8\text{KV}$ /10W



- The PHV series Electrostatic Chuck Voltage Source is designed for use in environments where energizing an existing Electrostatic Chuck is required.
- The PHV series is a compact, lightweight system, and is equipped with low stored energy and built-in current limitations, which safeguard your process from surges and arcs.
- The PHV series is Suitable for both Johnson-Rahbek and Coulomb type ESC applications
- The PHV series has Polarity reverse function and auto discharge function to improve wafer de-chucking.

Lineup

MODEL	Output Voltage	Output Current
PHV-0110	0 to 1KV	10mA
PHV-0110B	-1KV to 1KV	10mA
PHV-0205	0 to 2KV	5mA
PHV-0205B	-2KV0 to 2KV	5mA
PHV-0302	0 to 3KV	2mA
PHV-0302B	-3KV to 3KV	2mA
PHV-0303	0 to 3KV	3.3mA
PHV-0303B	-3KV to 3KV	3.3mA
PHV-0402	0 to 4KV	2.5mA
PHV-0402B	-4KV to 4KV	2.5mA
PHV-0502	0 to 5KV	2mA
PHV-0502B	-5KV to 5KV	2mA
PHV-06016	0 to 6KV	1.67mA
PHV-06016B	-6KV to 6KV	1.67mA
PHV-08012	0 to 8KV	1.25mA
PHV-08012B	-8KV to 8KV	1.25mA

MODEL	Output Voltage	Output Current
PHV-0110CT	0 to +/- 0.5KV	10mA
PHV-0205CT	0 to +/- 1KV	5mA
PHV-0303CT	0 to +/- 1.5KV	3.3mA
PHV-0402CT	0 to +/- 2KV	2.5mA
PHV-0502CT	0 to +/- 2.5KV	2mA
PHV-06016CT	0 to +/- 3KV	1.67mA
PHV-08012CT	0 to +/- 4KV	1.25mA

Spec. Example(PHV-0302B)

Input voltage/Current	85 to 264VAC 50/60Hz/ 1A max
H.V. ON/OFF	HV ON/OFF Switch on the front panel : Local mode Remote HV ON/OFF : Remote mode
H.V. Voltage Set	10 turn potentiometer on the front panel: Local mode Remote Setpoint Input: -10 to +10VDC = -3KV to 3KV
Ripple	Less than 0.3%
Display	3-digit digital display for both voltage and current
Output monitor	Voltage : -10 to +10VDC = -3KV to 3KV linear Current : -10 to +10VDC = -2mA to +2mA linear
Protections	Over Voltage Limit : 110% Current limit : 2.5mA
Automatic discharge	After turn off HV, the output will be discharged automatically. Discharge is via 100KOhms resistor.
Status signal	AC Power on .H.V. ON, Local/Remote Status : Ext I/F port
Status indicator	Interlock, H.V.ON, Polarity, Current limit, Local/Remote mode
RF blocking Filter	2MHz~13.56MHz
Output polarity reverse	switch at front panel :Local Mode command at Ext I/F :Remote Mode
Size	260mm wide x 99mm high x 300mm deep