



## 30kV 1000W High Voltage programmable DC supply

### Model No. SM-30P1200



### Introduction-

SMC series of high-voltage power supplies are designed to meet high-performance 19" chassis-type HV power supplies. SMC series are equipped with a complete protection system such as over-voltage, over-current protection, and arc protection etc. remote & local control, voltage and current display. These full featured supplies are available in a wide range of outputs with many options.

### Typical Applications-

Capacitor charging, electronic component, aging insulation test, high voltage testing, electron beams, ion beams, lithography technology, electro-statics applications, electro-spinning, electrophoresis capillary electrophoresis, microchip electrophoresis, DNA sequencing, piezo electricity material testing, science, laboratory applications, accelerator, industrial applications.



**Specifications:**

Sr. No	Parameters	Values
1	Output Voltage 'V rated'	30kV, Adjustable from 0 up to 100% of V rated
2	Output Current 'I rated'	≥33mA, Adjustable from 0 up to 100% of I rated
3	Rated Power output	1000W
4	Polarity	Positive
5	Power Factor	≥98% at full load
6	Mains Input	Single phase 230 ±10%VAC, 50 Hz
7	Constant Voltage Mode	a) Load and Line Regulations ≤0.5% of FS b) Ripple ≤1 % of Full Scale (FS) c) Temperature Coefficient CV: ≤300ppm/°C Output Stability ≤300ppm (After 30min of warm up)
8	Constant Current Mode	a) Load and Line Regulation ≤0.5% of FS b) Ripple ≤1% of FS
9	Transient Response Time	≤ 10 ms
10	Indicators	Voltage, Current, Alarm, Output ON
11	Analog Programming and Monitoring	Voltage: 0 to 10V, Accuracy: ±1% of V rated or better Current: 0 to 10V, Accuracy: ± 1% of I rated
12	Remote Programming and Monitoring (Resolution & Accuracy)	Voltage Resolution: Better than 15bit, Accuracy: 0.05% V rated Current Resolution: Better than 15bit, Accuracy: 0.1% I rated
13	Display	3 and 1/2 Digits
14	Protections	Short Circuit, Over Current and Arc protection
15	Programming Interface	Analog Programming, RS232/RS485, USB(optional)
16	Operating Temperature	-10~+55°C, with 100% load
17	Dimensions	19" Rack size, ≤ 3U height, and depth ≤600 mm
18	Cooling	Forced air cooling
19	Accessories	Power Cord, HV Output Cable of 1.5 meter length, Remote control unit and User Manual,
20	Warranty	1 year