



SM Series



Switch Mode Rectifier & Chargers

These are essentially high performance Switch Mode Type Power Supplies and comes in 3U High, Standard 19" Plug-in Module. Each Module is capable of delivering 1000Watts of Power. Compact size and higher power to volume ratio are the unique features of this product. These units are designed to meet EN55022/VDE0878 safety standards.

Multiples of these modules can be used in parallel to derive higher power. While used in parallel, individual module will automatically share the available load equally. The optional features of these SM series Power Supplies/ Chargers include Active Power Factor Corrector at the input and hot swappable Modular construction.

These units are ideal for Telecom, Battery Charging and Industrial applications

Features:

- Compact 19" Rack construction
- Wide Input Range
- Abnormal condition Alarm
- Float/Boost Mode
- Optional feature include PFC
- Designed to meet VDE0878/EN55022-B
- Power Rating up to 6000W

SM1000	SM2000	SM3000	SM4000	SM5000	SM6000
24V/40A	24V/80A	24V/120A	24V/160A	24V/200A	24V/240A
36V/30A	36V/60A	36V/90A	36V/120A	36V/150A	36V/180A
48V/20A	48V/40A	48V/60A	48V/80A	48V/100A	48V/120A
60V/16A	60V/32A	60V/48A	60V/64A	60V/80A	60V/96A
110V/9A	110V/18A	110V/27A	110V/36A	110V/45A	110V/54A
220V/4.5A	220V/9A	220V/13.5A	220V/18A	220V/22.5A	220V/27A
1000W	2000W	3000W	4000W	5000W	6000W

Note : Higher Power Rating, or any specific Voltage and Current rating can be offered against request in specific custom built models

General Specifications

Input Voltage	a	185V-264V AC, 45 to 65Hz, single phase or
	b	320V-457V AC, 45 to 65Hz, three phase, 4 wire or
	c	90V-265V AC, 45 to 65Hz, 1 Ph for unit with PFC or
	d	155V-460V AC, 45-65Hz, 3phase, 4 wire for unit with PFC
Note	3phase distribution will be provided only with the SM3000, SM4000, SM5000 & SM6000	
Power Factor	a	0.75 typical or
	b	0.99 for unit with PFC
Crest Factor	2.5 typical	
Spike EMV Bust	VDE 0843/IEC801-V-3-3	
	VDE 0843/IEC801-IV-3-2	
No Load Current	0.25A at 185V for 1000W.	
	0.50A at 185V for 2000W	
	0.75A at 185V for 3000W	
	1.00A at A at 185V for 5000W	
	1.50A at 185V for 6000W	
Hold up time	20mS typical/230V	
RFI	VDE 0878/EN55022-B	
Output Voltage	PS 24: Fixed 24V DC (Adjustable from 23V to 28V)	
	PS 36: Fixed 36V DC (Adjustable from 32V to 42V)	
	PS 48: Fixed 48V DC (Adjustable from 46V to 56V)	
	PS 60: Fixed 60V DC (Adjustable from 58V to 70V)	
	PS 110: Fixed 110V DC (Adjustable from 100V to 130V)	
	PS 220: Fixed 220V DC (Adjustable from 200V to 260V)	
Output Current	See table on page 15	
Output Characteristic	UI/CV, CC	
Voltage Regulation	Static: $\pm 2\%$ or 1Volt	
	Dynamic: $\pm 4\%$ for 10 to 100% load	
Current Regulation	$\pm 5\%$ of nominal load	
Ripple	< 200mV s/s peak to peak	
	< 2mV psophometric	
Recovery Time	1 millisecond typical	
Over Voltage Protection	Electronic Turn off, Reset through Push Switch	
Over Temp. protection	Electronic Turn Off, reset trough Push Switch	
Parallel Operation	Possible	
Operation in Series	Possible with option U (cross diode)	
Redundant Configuration	Possible through built in D, diode	
Operating Temperature	-10°C to + 60° C	
Storage Temperature	- 20°C to + 70° C	
De-rating	Above 40°C at the rate of 2.5% per°C	
Electrical Construction	VDE 0160/ VDE 0804/ VDE 0805 protection class 1	
Ground Isolation	Against Input: 2.5kV DC	
	Against Output: 1.4kV DC	
Dimensions & Weight	SM1000:	141.5W x 128H x 307D (mm) 3 Kg
	SM2000:	19" (482.6 mm) x 4 U(176 mm) x 460 mm 12 Kg
	SM3000:	19" (482.6mm) x 4 U (176 mm) x 460 mm 15 Kg
	SM4000:	19"(482.6 mm) x 7 U (312 mm) x 460 mm 24 Kg
	SM5000:	19" (482.6 mm) x 7 U (312 mm) x 460mm 27 Kg
	SM6000:	19" (482.6 mm) x 7 U (312 mm) x 460 mm 30 Kg

Specification subject to change without notice.



POWER CONTROLS & CONVERSION DIVISION

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