

## SM600

**Modular 600 Watt switch mode power unit designed specifically for PABX and small telecoms applications**

**Rating from a single rectifier:  
12A output (48Vdc operation)**

### Rating from a single rectifier:

E12A output (48Vdc operation)

25A output (24Vdc operation)

### Key features

- Boost (for vented cells)
- Close voltage regulation
- Remote monitoring/alarms
- Convection cooled
- High reliability
- Horizontal 19" rack mounting or vertical shelf/wall mounting
- High power factor
- Sinusoidal input current demand to EN610003-2 (on units with pf >0.9, refer to table)
- CE marked (refer to table)



### SPECIFICATION

#### Input

<b>AC input voltage</b>	Refer to table
<b>Frequency</b>	45 – 65Hz
<b>Number of phases</b>	Single
<b>Power factor</b>	Refer to table
<b>Total harmonic distortion (THD)</b>	Refer to table
<b>Full load input current</b>	Refer to table

#### Output

<b>Output voltage</b>	Refer to table
<b>Output current</b>	Refer to table
<b>Current share</b>	Within 10% for two or three rectifiers in parallel
<b>Load and line regulation</b>	Less than 1% for operating input voltage range and load variation from zero to rated load
<b>Ripple and noise</b>	2mV psophometric weighted, 50mV flat to CCITT
<b>Transient response</b>	Output voltage recovers to within regulation band with a load change 10% to 100% or 100% to 10% within 4ms
<b>Temperature coefficient</b>	Less than $\pm 0.015\%/^{\circ}\text{C}$
<b>Polarity</b>	Bipolar

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Protection	
<b>Output current limit</b>	Current characteristic is constant current between 100% rated load down to short circuit. Automatic recovery to normal operation on removal of abnormal load
<b>Output overvoltage</b>	Factory pre-set. Re-set by reconnection of AC input supply. When more than one unit is operating in parallel only faulty unit will shut down
<b>Inrush current</b>	Less than 20A peak at nominal mains
<b>EMC</b>	EN55022, Level B, FCC (Part 15 Subpart B)
<b>Safety</b>	BS 6301, IEC950, EN60950 EN41003
Environmental	
<b>Operating temperature</b>	0°C to +50°C inlet ambient
<b>Storage temperature</b>	-40°C to +80°C
<b>Humidity</b>	Up to 95% RH non-condensing
<b>Altitude</b>	0 – 4000m operating - 0 – 12000m non-operating
Mechanical specification	
<b>Dimensions</b>	Case A 220mm (3U) H, 80mm W, 375mm D Case B 88mm (2U) H, 482mm W, 260mm D
<b>Mounting</b>	Case A shelf/rack mounting - Case B 19" rack mounting - (Refer to table)
<b>Weight</b>	6.0kg

  

Order Codes	Input Voltage Range	RMS Input Current	Power Factor pf	Output Volts	Output Current	Case	With Meter	THD	CE
SM600-50-12-191	180-264V	3A	>0.9	48V	12A	A	No	< 5%	Yes
SM600-50-12-294	180-264V	3A	>0.9	48V	12A	B	Yes	< 5%	Yes