

SM660

660Watt switch mode power unit designed specifically for low power applications in the Telecom and Datacom industries

**Rating from a single rectifier:
14A output at 48Vdc operation**

Key features

- Convection cooled unit for low maintenance;
- High reliability;
- High power density (187W/l);
- Robust due to its very wide operating input voltage range (90 to 290Vac);
- Wide operating temperature range -20°C to +70°C with automatic self protection;
- Reliable operation due to its self-protection (input, output, temperature, current) and high MTBF;
- Sine wave input (PFC) and high efficiency (92%) to reduce operation costs;
- Easy to operate: compact, light, hot pluggable, clear indications by LED, adjustment free;
- Control & alarm functions for remote management;
- Float temperature compensation and voltage control input for optimum battery charging via system controller - increases battery life;
- **CE** marked.

For use with controller:

ACM1D

For use in system:

MPS660



SPECIFICATION

Input	
Nominal input supply lines	208, 220,230 or 240Vac without adjustment
Input voltage range	184-276Vac rms (with full power output), 300Vac withstand voltage 90V-290V for 48V version (with de-rating between 90 and 184Vac) Wide input voltage for SM660-60Vdc under request
Nominal current	3.2A at 230V
Nominal frequency	50/60Hz
Number of phases	Single Phase
Power factor	0.99
Total harmonic distortion (THD)	< 3%
Inrush current	<15A

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Output	
Nominal voltage	48Vdc
Output voltage control range	42-58Vdc
Maximum power	660W
Maximum current	14A
Current sharing	±5%
Efficiency	92%
Line & load regulation	<1%
Ripple and noise	<2mVrms weighted, <20mVrms unweighted, <250mV peak to peak (30MHz Bandwidth)
Transient response	5% for load variations from 10% to 90% or 90% to 10% recovery to normal regulation limits in 5ms
Protection	
Input protection	Hot pluggable, inrush protection, soft-start, fuse on phase, surge protection devices, The rectifier shutdown for input less than 90Vac or greater than 290Vac, in case of low and high voltage shutdown the rectifier will automatically re-start
Output protection	Hot pluggable, electronic short circuit protection, reverse polarity protection
Output overvoltage protection	DC overvoltage shutdown
Thermal protection	Automatic shutdown on thermal overload with automatic re-start when acceptable temperatures are re-established
Alarms & indicators	
Alarms	Rectifier fail, control loop fail/rectifier in fail operation, DC overvoltage shutdown, output voltage present
Front panel indicators	Green LED: DC output "OK"
Mechanical specification	
Dimensions	261.7mm (6U) H, 60.1mm (12TE) W, 225mm D (minimum cabinet depth: 400mm)
Weight	3.3Kg
Ingress protection	IP20
Mounting	Vertical 6U, 6 rectifiers across 19" or ETSI rack
Connections	Hot pluggable with rear connections
Environmental	
Cooling	Natural convection
Operating temperature	-20°C to +70°C full power up to +55°C, with de-rating above
Storage temperature	-40°C +85°C
Humidity	20 to 95% RH non condensing
Acoustic noise	<40dB(A)
Standards	
Safety	EN60950
EMC	Emission: EN 55022 Class B, EN61000-3-2/3-3, EN61000-6-3/6-4 Immunity: EN61000-6-1/6-2 – ANSI C62-41
Telecom networks	EN300386, EN300132-2
Environment	EN300019 (Transportation, storage and operation)
Acoustic noise	ETS 300753
Approvals	CE
Available Configurations	
Product reference	SM660-48V-12