

## SEC SERIES SWITCH MODE POWER SUPPLIES

### FEATURES

- Universal input: 100 to 240 VAC, 50/60 Hz
- Power factor corrected
- Complies with Minimum Energy Performance Standards (MEPS) for external power supplies
- Efficiency level 6
- Advanced switch-mode technology
- Reliable power with minimum weight and size
- Circuit innovations minimize output voltage ripple and RFI
- 2 year warranty



## 30 Amps

### TECHNICAL SPECIFICATIONS

Model	SEC 1235P-M	
	115A	230V
<b>INPUT</b>		
Input voltage range	100-240 VAC	
Input frequency range	50-60Hz (47-63Hz)	
AC input current	3.87A at 120 VAC 4.05A at 115 VAC 4.80A at 100 VAC	1.91A at 240 VAC 1.99A at 230 VAC 2.40A at 200 VAC
Inrush current on switching on	30A (Cold start)	60A (Cold start)
Power factor at full load	0.99	0.97
No load power draw	<0.5W	
Average efficiency	> 89%	> 92%
Energy efficiency level	Level VI	
PWM switching frequency	75 to 150 KHz	
PFC switching frequency	25 to 68 KHz	
<b>OUTPUT</b>		
Output voltage	13.8V ± 0.1V	
Output current: rated	30A	
Output current: current limit	36 to 37.5A	36.3A
Output power	414W	
Output ripple and noise	100 mV peak to peak at full load	
Output voltage adjustment range	12.5 to 15.0 VDC	
Output voltage tolerance at no load	± 0.1V	
Output metering	Provided with the following meters: Voltmeter: 0 to 15V; 0.5V per division Ammeter: 0 to 50A; 2A per division Back lighting with On/Off switch	

Technical Specifications subject to change without notification.

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## TECHNICAL SPECIFICATIONS

Model	SEC 1235P-M	
	115A	230V
<b>PROTECTIONS</b>		
Overload and short circuit	Hiccup mode at 120% (36A). Auto reset when fault is removed	
Output over voltage protection	By PWM controller (16.5 ± 0.5 VDC)	
Cooling	Fan ON when the temperature of Secondary Heat Sink reaches 55°C ± 5°C. Fan switches OFF when the temperature drops to 45°C ± 5°C	
Over temperature protection	The unit will shut down when the temperature of the Primary Heat Sink rises to 105°C ± 5°C. Auto reset when the temperature drops to 75°C ± 5°C	
Internal AC side fuse	250V, 6.3A; Time Delay Type; 5mm x 20mm	
<b>ENVIRONMENTAL</b>		
Operating temperature	-20°C to +50°C: 100% rated power 50°C - 60°C: lineary de-rate from 100% power at 50°C to 80°C power at 60°C	
Storage temperature range	-30°C to 70°C	
<b>COMPLIANCE - SAFETY</b>		
European CE safety marked	Low Voltage Directive (LVD) 2014/35/EU ENG62368-1 : 2014+A11 : 2017	
Australia and New Zealand safety requirements	AS/NZS 60950-1: 2015	
<b>COMPLIANCE: EMC</b>		
Europe (for CE mark)	EMC Directive: 2014/30/EU EMI: EN55032:2012; EN61000-3-2: 2014 EN61000-3-3: 2013 EMS: EN55024: 2010 EN61000-4-2: 2009 EN61000-4-3: 2006+A1:2008+A2:2010 EN61000-4-4: 2012 EN61000-4-5: 2014 EN61000-4-6: 2014 EN61000-4-8: 2010 EN61000-4-11: 2004	
Australia and New Zealand	EMI: AS/NZS CISPR 32, Class B	
<b>COMPLIANCE: ROHS2</b>		
For European CE mark	2011/65/EO (RoHS2)	
<b>GENERAL</b>		
Dimensions (WxDxH)	185 x 208 x 57.8 mm	
Weight	1.66 Kg	

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