

## Special Features

450Watt Output Power  
1.5Ux3U Form Factor  
Wide Input Voltage Range  
No Minimum Load required  
Stand-by Output Voltage 5V@2.5A  
Remote sense  
Active Power Factor Corrector  
Input harmonics conform to EN61000-3-2 and EN61000-3-3  
I<sup>2</sup>C Serial Communication System  
Multiphase Buck Synchronous rectification  
RoHS-6 Compliant (Directive 2002/95/EC)



## Applications

Test & Measurement Equipment (PXI Modular Instruments)  
Industrial Equipment  
ITC Equipment

## Input Specification

Input Voltage	110Vac, 230Vac (90Vac to 264Vac Full range), Single Phase
Input Frequency	50Hz, 60Hz, 400Hz (47Hz to 440Hz)
Maximum Input Current	7A@90Vac
Maximum Inrush Current	40A peak
Power Factor Corrector	≥0.95 (Full Load@230Vac)
Input Protection	Internal fuse, 10A

## Output Specification

Maximum Output Power 450W

Output Voltage	<b>+3.3V</b>	<b>+5V</b>	<b>+12V</b>	<b>-12V</b>	<b>+12VFan</b>	<b>5Vaux</b>
Output Current	0 to 32A	0 to 27A	0 to 25A	0 to 2A*	0 to 5A	0 to 2.5A
Voltage Regulation	±2.5%	±2.5%	±2.5%	±2.5%	±5%	±5%
Ripple	<50mV	<50mV	<50mV	<50mV	<120mV	<50mV

\*Maximum Output Current 4.5A available upon request

Efficiency (typ)	≥80% (Full Load@230Vac)
Hold-up Time	>20ms @ Full Load)

## Protections

Input Under Voltage  
Output Under Voltage  
Output Over Voltage  
Output Overload  
Output Short Circuit  
Over Temperature  
FAN Failure

## Features

Soft Start  
Remote ON-OFF  
Remote sense  
Output Voltages (+3.3V, +5V, +12V)  
Auxiliary voltage available on stand by +5V@2,5A  
Thermal shutdown alarm  
Fan Rotation detector  
Ramp-up and Ramp-down sequence (+12V and +5V always greater than +3.3V)  
Power Ok (Power Good) signal  
AC Range Signal  
Serial Communication System I<sup>2</sup>C

## Environmental

Operating Temperature	-10°C to +60°C Full Load
Storage Temperature	-40°C to +70°C
Relative Humidity	5% to 95% (non-condensing)
Cooling	Internal Fan (temperature controlled speed for low acoustic noise and extended life performances)

## Safety

Safety Agency Approvals	cUR <sub>US</sub> , D, CB Certificate
Safety Standards	IEC 60950-1 Ed1.0 (2001); UL 60950-1:2003, First Edition, CSA 22.2 No 60950-1-03 1 <sup>st</sup> Ed. April, 1 2003

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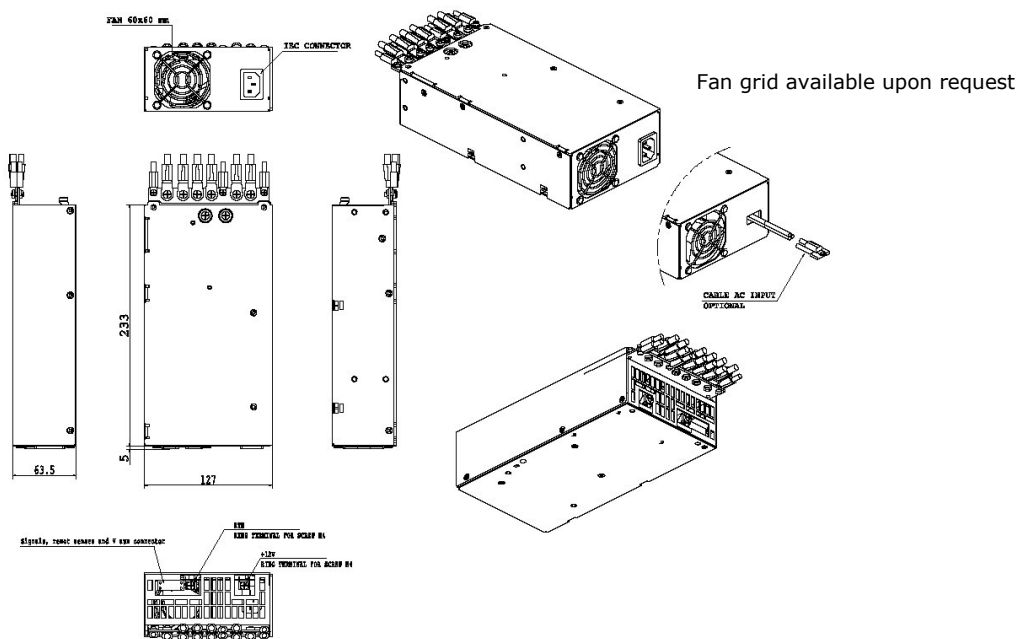
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Conducted & Radiated Immunity	EN55022 Level B & FCC Class B
Harmonic Distortion	EN55024 Level B & FCC Class B
Flicker and Fluctuation	EN61000-3-2
Electrostatic Discharge	EN61000-3-3
Radiated RFI	EN61000-4-2
Fast Transients/bursts	EN61000-4-3
Input Line surges	EN61000-4-4
Conducted RFI	EN61000-4-5
Voltage Dips	EN61000-4-6
	EN61000-4-11

## Physical Specification

Case	Fully enclosed metal box
Dimensions (HxWxD)	2.5" x 5.0" x 9.17" = 1.5U x 3U x 9.17" = = 63.5mm x 127mm x 233mm
Weight	4.41 lb = 2.0 kg



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