

ARTISAN®
TECHNOLOGY GROUP

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Artisan Technology Group
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Full-service, independent repair center
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Custom engineering
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ROAL
living energy

HIGH POWER DENSITY MULTI OUTPUT SMPS
Model RHPS231

Special Features

776 Watt Output Power
1.5U x 3U Form Factor
Multiple Output
Wide Input Voltage Range
No Minimum Load required
Stand-by Output Voltage 5V@2.5A
Remote sense
Active Power Factor Corrector
Fan Status Monitoring
Multiphase buck synchronous rectification
Input harmonics conform to EN61000-3-2 and EN6100(
RoHS-6 Compliant (Directive 2002/95/EC)



Applications

Test & Measurement Equipment (PXI Modular Instruments)
Industrial Equipment

Input Specification

Input Voltage	110 Vac, 230 Vac (90 Vac to 264 Vac Full Range), Single Phase
Input Frequency	50 Hz, 60 Hz, 400 Hz (47 Hz to 440 Hz)
Maximum Input Current	13 A @ 90 Vac
Maximum Inrush Current	40 A peak
Power Factor Corrector	≥0.95 (Full Load @ 230 Vac)
Input Protection	Internal fuse, 16 A

Output Specification

Output Power (max) 776W

Output Voltage	+3.3V	+5V	+12V	-12V	+12VFan	5Vaux
Output Current	0 to 61 A	0 to 56 A*	0 to 45 A*	0 to 4.0 A	0 to 6.0 A	0 to 2.5 A
Voltage Regulation	±2.5%	±2.5%	±2.5%	±2.5%	±5%	±5%
Ripple	<50 mV	<50 mV	<50 mV	<50 mV	<120 mV	<50 mV

*Total power +12V plus +5V = 578W - Total power +5V Plus +3,3V= 411W Total power +3,3V plus + 5Vplus + 12V = 699W

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

true digitalpower

Protections

Output Over Voltage	Latch Mode with recovery when fault condition is removed and the Power Supply is cycled ON/OFF
Output Overload	Latch Mode with recovery when fault condition is removed and the Power Supply is cycled ON/OFF
Output Short Circuit	On Each Output, the power supply shuts down until the fault condition is removed and the power supply is cycled ON/OFF
Over Temperature	The Power Supply shuts down to protect itself before excessive temperature causes damage; It restarts when the temperature decreases within acceptable range.

Features

Soft Start	
Remote ON-OFF	
Remote sense	on Output Voltages: +3.3 V, +5 V,+12 V
Auxiliary voltage	available on stand by +5 V @ 2.5 A
Thermal shutdown alarm	
Fan Rotation Detector	The Power Supply indicates the status of each fan via a logic signal on the connector

Environmental

Operating Temperature	0 to +60 °C Full Load
Storage Temperature	-40 to +70 °C
Relative Humidity	5% to 95% (non-condensing)
Cooling	Internal Fans (temperature controlled speed for low acoustic noise and extended life performances)
MTBF	500000 h (Estimated value)

Safety

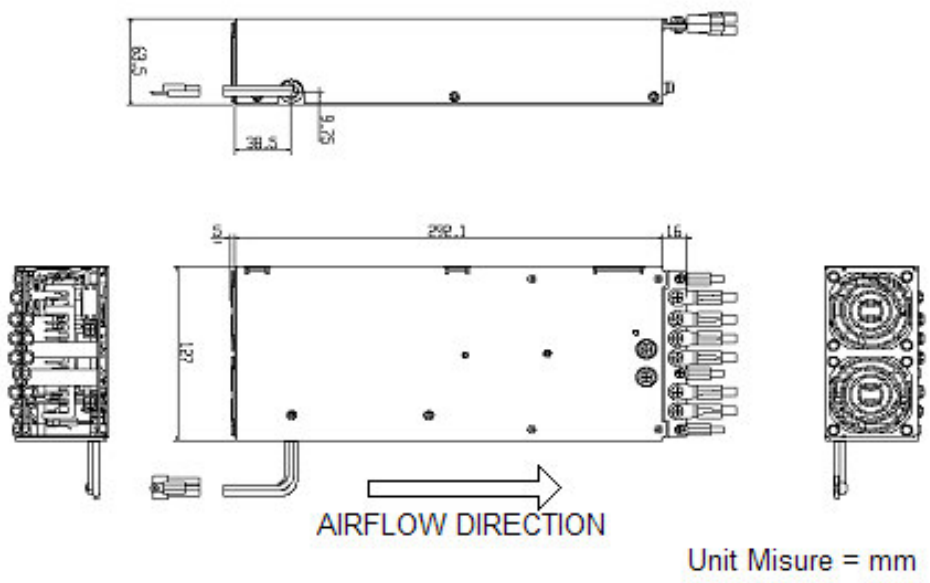
Safety Agency Approvals	$_{c}UR_{uS}$, D, CB Certificate
Safety Standards	IEC 60950-1 Ed1.0 (2001); UL 60950-1:2003,First Edition, CSA 22.2 No 60950-1-03 1st Ed. April,1 2003

EMC Compliance

Conducted Emissions	EN55022 Class B
Harmonic Distortion	EN61000-3-2
Flicker and Fluctuation	EN61000-3-3
Electrostatic Discharge	EN61000-4-2
Fast Transients/bursts	EN61000-4-4
Input Line Surges	EN61000-4-5
Voltage Dips	EN61000-4-11
Shock and Vibration Test	

Physical Specification

Case	Fully Enclosed Metal Box
Dimensions (H x W x D)	1.5U x 3U x 313mm = 63.5mm x127mm x 313mm = 2.5in x 5.0in x 12.3in
Weight	2.8 kg = 6.2 lb



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