

DESCRIPTION

100W Open frame type power supply with 24V DC output for information technology and industrial applications

APPLICATION

For information technology and industrial applications

FEATURES

- Compact size
- Fit 1U Chassis
- Full Load at 0~50 °C
- Air Convection Cooling
- Protection: Over Voltage, Over Temperature, Short Circuit & Over Power
- High Reliability
- High Density
- MTBF 150,000 hours at 25°C
- EMC class B
- ITE Approval

WATTAGE

Wattage: 100W

PRODUCT HIGHLIGHT

Efficiency Level: 87% / 115Vac & 89% / 230Vac
Output Voltage: 24V
Size: 50.8 (2") x 101.6 (4") x 32 (1.26") mm

INPUT SPECIFICATION

Input Type: AC-DC
Input Voltage: 90~132 Vac
Input Frequency: 47~63 Hz
Input Current: 1.9A (rms) for 100 - 120 VAC
 1.1A (rms) for 200 - 240 VAC
Inrush current: 40A @115VAC ; 80A @ 230VAC
Earth leakage current: 150µA max. @264VAC, 63Hz

OUTPUT SPECIFICATION

Output Voltage/Current:

Output1
24 V , 4.2 A

Ripple & Noise:

Output1
240mV

Over Voltage Protection:

Output1
110% - 140%

Over current protection: All outputs protected to short circuit conditions
Temperature coefficient: All outputs ±0.04% / °C maximum
Transient response: Maximum excursion of 4% or better on all models, recovering to 1% of final value within 500µs after a 25% step load change

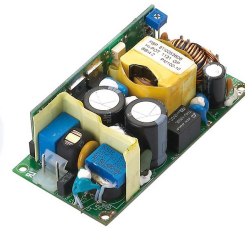
MECHANICAL

Dimension: 50.8mm(L) x 101.6mm(W) x 32.0mm(H)
convection

Cooling:
Connector Type-Input: Molex header 09-65-2038 or equivalent, mating with Molex housing 09-50-1031 or equivalent

Connector Type-Output: Molex header 09-65-2068 or equivalent, mating with Molex housing 09-50-1061 or equivalent

Remote Control: No



SAFETY STANDARD APPROVAL



ENVIRONMENTAL SPECIFICATION

De-rating: De-rate from 100% at +50°C, linearly to 50% at +70°C
Storage temperature: -40°C to +85°C
Relative humidity: 5% to 95% non-condensing

GENERAL SPECIFICATION

Efficiency: 87% / 115Vac & 89% / 230Vac @Full Road% minimum on all models
Hold-up time: 12 ms minimum at 12 VAC
Line regulation: ±0.2% maximum at full load
Withstand voltage: 5600 VDC from input to output,
2100 VDC from input to ground,
700 VDC from output to ground,
150,000 hours minimum at full load at 25 °C ambient, calculated per MIL-HDBK-217F

EMC PERFORMANCE

EN55011: Class B Conducted, Class B radiated
EN55022: Class B Conducted, Class B radiated
FCC: Class B Conducted, Class B radiated
VCCI: Class B Conducted, Class B radiated
EN61000-3-2: Harmonic distortion, Class A and D
EN61000-3-3: Line flicker
EN61000-4-2: ESD, ±8 KV air, ±6 KV contact
EN61000-4-3: Radiated immunity, 3 V/m
EN61000-4-4: Fast transient/burst, ±2 KV
EN61000-4-5: Surge, ±1 KV diff., ±2 KV com.
EN61000-4-6: Conducted immunity, 3 Vrms
EN61000-4-8: Magnetic field immunity, 3 A/m
EN61000-4-11: Voltage dip immunity, 30% reduction for 500ms (Criteria A @ 230VAC, Criteria B @ 100VAC), > 95% reduction for 10ms (Criteria A)

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