

DESCRIPTION

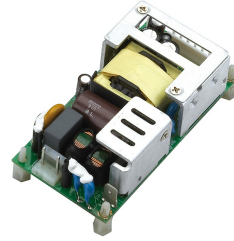
42W Open frame type power supply with 12V DC output for information technology and industrial applications

APPLICATION

For information technology and industrial applications

FEATURES

- Compact size 2" x 4" x 1.18"
- Wide-range input 90-264 VAC
- Low earth leakage current
- EN55022 class B emissions
- RoHS compliant



WATTAGE

Wattage: 42W

PRODUCT HIGHLIGHT

Efficiency Level: 80 ~ 88%
Output Voltage: 12V
Size: 50.8 (2") x 101.6 (4") x 30 (1.18") mm

INPUT SPECIFICATION

Input Type: AC-DC
Input Voltage: 90~264 Vac
Input Frequency: 47~63 Hz
Input Current: 0.9A (rms) for 100 VAC 0.5A (rms) for 240 VAC
Inrush current: 25A @115VAC ; 50A @ 230VAC
Earth leakage current: 150µA max. @264VAC, 63Hz

OUTPUT SPECIFICATION

Output Voltage/Current:

Output1
12 V , 3.5 A

Ripple & Noise:

Output1
120mV

Over Voltage Protection:

Output1
112% - 132%

Over current protection: All outputs protected to short circuit conditions
Temperature coefficient: All outputs $\pm 0.04\%$ / °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 30.0mm(H)

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

Operating temperature: -10°C to +70°C
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: 80~88% minimum on all models
Hold-up time: 12 ms minimum at 12 VAC
Line regulation: $\pm 0.2\%$ maximum at full load
Withstand voltage: 5600 VDC from input to output, 2100 VDC from input to ground, 700 VDC from output to ground,
MTBF: 400,000 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, 60% reduction for 100ms and > 95% reduction for 10ms

This content is subject to change, please refer to specification for more detail.
 FSP reserve the right to change the content without prior notice