

## DESCRIPTION

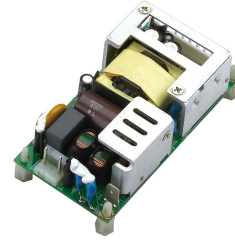
48W Open frame type power supply with 24V DC Output for information technology and industrial applications

## APPLICATION

For information technology and industrial applications

## FEATURES

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



## WATTAGE

**Wattage:** 48W

## PRODUCT HIGHLIGHT

**Efficiency Level:** 80 ~ 88%  
**Output Voltage:** 24V  
**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  
24 V , 2.0 A

### Ripple & Noise:

Output1  
240mV

### 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,  $\pm 8$  KV air,  $\pm 6$  KV contact  
**EN61000-4-3:** Radiated immunity, 3 V/m  
**EN61000-4-4:** Fast transient/burst,  $\pm 2$  KV  
**EN61000-4-5:** Surge,  $\pm 1$  KV diff.,  $\pm 2$  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