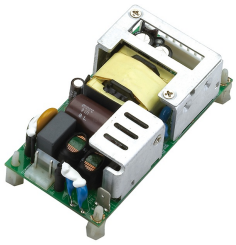
Industry
FSP042-1K40

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

APPLICATION
For information technolegy 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



SAFETY STANDARD APPAOVAL

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 coefficien:	All outputs ±0.04% / ℃ 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
Conntector Type-Output:	Molex header 09-65-2068 or equivalent, mating with Molex housing 09-50-1061 or equivalent
Remote Control:	No

ENVIRONMENTAL SPECIFICATION
Operating temperature:	-10℃ to +70℃
De-rating:	De-rate from 100% at +50℃, linearly to 50% at +70℃
Storage temperature:	-40℃ to +85℃
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:	±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 ℃ 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

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