



# Industry FSP400-1K31B

## DESCRIPTION

400W Open frame type power supply with 18V 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:** 400W

## PRODUCT HIGHLIGHT

**Efficiency Level:** 90% / 115Vac & 92% / 230Vac at convection  
**Output Voltage:** 18 VDC  
**Size:** 101.6 ( 4.0" ) x 177.8 ( 7.0" ) x 40.0 ( 1.58" ) mm

## INPUT SPECIFICATION

**Input Type:** AC-DC  
**Input Voltage:** 90~264 Vac  
**Input Frequency:** 47~63 Hz  
**Input Current:** 4.6A : 100 VAC / 2.3A : 240 VAC  
**Inrush current:** 20A @ 115 Vac / 40A @ 230Vac  
**Earth leakage current:** max. 300uA @ 264 Vac

## OUTPUT SPECIFICATION

### Output Voltage/Current:

Output1

18 V , 16.7 A

### Ripple & Noise:

Output1

180mV

### Over Voltage Protection:

Output1

115% - 140%

## MECHANICAL

**Dimension:** 101.6mm(L) x 177.8mm(W) x 40.0mm(H)

**Cooling:** 300W / convection; 300W ~ 400W with 7CFM forced airflow

**Connector Type-Input:** Dinkle DT-35-B01W-03 or equivalent

**Connector Type-Output:** M4\*0.7 Screw connectors or equivalent

**Remote Control:** No

## SAFETY STANDARD APPAOVAL



## ENVIRONMENTAL SPECIFICATION

**Storage temperature:** -20 °C to +80 °C  
**Relative humidity:** 5% to 95% non-condensing

## GENERAL SPECIFICATION

**Efficiency:** 88% / 115Vac & 91% / 230Vac @Full Road% minimum on all models  
**Hold-up time:** 12 ms minimum at 12 VAC  
**MTBF:** 150,000 hours minimum at full load at 25 °C ambient, calculated per MIL-HDBK-217F

## EMC PERFORMANCE

**EN55022:** Class B Conducted, Class A radiated  
**FCC:** Class B Conducted, Class A radiated  
**VCCI:** Class B Conducted, Class A radiated  
**EN61000-3-2:** Harmonic distortion, Class A and D  
**EN61000-3-3:** Line flicker  
**EN61000-4-2:** ESD, ± 8 KV Air ; ± 4 KV contact  
**EN61000-4-3:** 3V/m  
**EN61000-4-4:** Fast transient/burst, ±1 KV  
**EN61000-4-5:** Surge, ±1 KV diff., ±2 KV com.  
**EN61000-4-6:** 3V rms  
**EN61000-4-8:** 1A/m  
**EN61000-4-11:** Voltage dip immunity, 30% reduction for 500ms , > 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