



E-Star Power Development Co., Ltd. (E-STAR)

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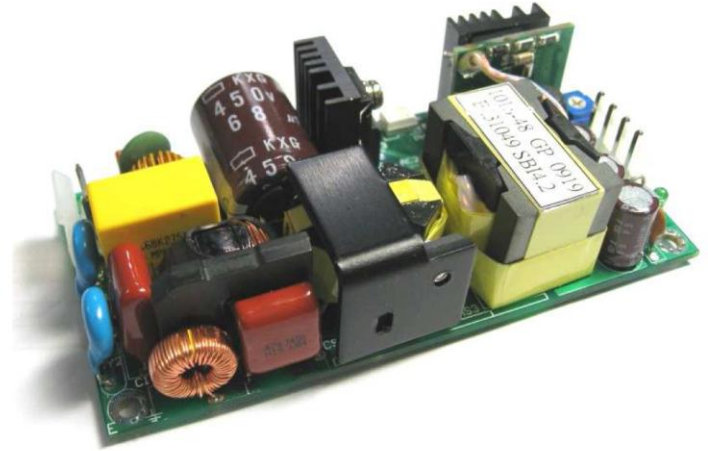
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100W Open Frame type Single output power supply < CFM101S



Features

- * 100W Single Output
- * Universal Input Range 90~264Vac
- * Active PFC Function
- * 2"X4" Size
- * Efficiency at 89% Typical
- * Continuous Short Circuit Protection
- * Meets EN55022 Class B and CISPR/FCC Class B



MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE & NOISE NOTE 1	VOLTAGE ACCURACY NOTE 2	LINE REGULATION NOTE 3	VOLTAGE ADJ. RANGE	LOAD REGULATION NOTE 4	% EFF. (Typ.) NOTE 5
CFM101S120	12 V	8.4 A	1%	±1%	±0.5%	11.4 ~ 12.6V	±1%	87%
CFM101S150	15 V	6.7 A	1%	±1%	±0.5%	14.25 ~ 15.75V	±1%	87%
CFM101S200	20 V	5.0 A	1%	±1%	±0.5%	19 ~ 21V	±1%	88%
CFM101S240	24 V	4.2 A	1%	±1%	±0.5%	22.8 ~ 25.2V	±1%	88%
CFM101S480	48 V	2.1 A	1%	±1%	±0.5%	45.6 ~ 50.4V	±1%	89%



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Specifications

INPUT SPECIFICATIONS:

Voltage 90~264Vac
 Frequency 47 to 63Hz
 Inrush Current..... Cold Start @25°C 90A max. @240Vac
 Conducted EMI CISPR/FCC Class B
 Leakage Current 3.5mA max.

OUTPUT SPECIFICATIONS:

Hold-up Time 10mS typ. @115Vac
 Short Circuit Protection Continuous
 Over Voltage Protection TVS Component to Clamp
 Temperature Coefficient ±0.05%/°C

GENERAL SPECIFICATIONS:

Isolation Input to output = 4,242VDC
 Operating Temperature 0 ~ 70°C (see derating curve)
 Storage Temperature -20 ~ 85°C
 Humidity 93% RH max. Non condensing
 Cooling Natural Convection
 Switching Frequency 100KHz Typical
 MTBF MIL-HDBK-217F, GB, at 25°C/115VAC 200Khrs min.
 Altitude 2000m
 Dimensions 101.6x50.8x27.94 mm(4.000x2.000x1.100 inches)
 Weight 150g

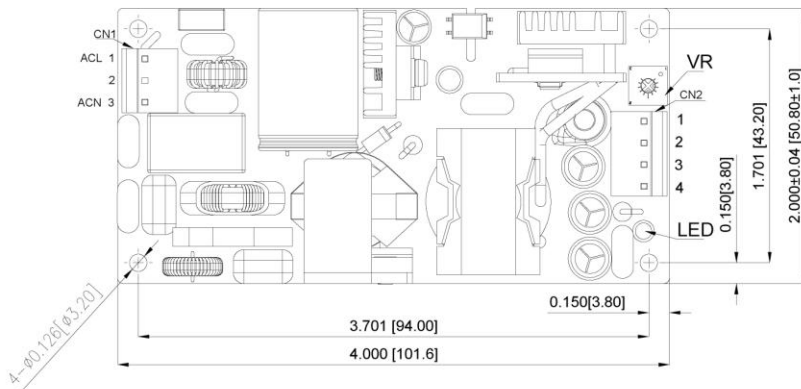
SAFETY AND EMC:

Emission and Immunity EN55022 Class B
 FCC Part 15 subpart B Class B, EN55024, EN61204-3, EN61000-6-3
 EN61000-6-1, EN61000-3-2, EN61000-3-3
 Safety IEC60950-1 2nd, EN60950-1 2nd, UL60950-1 2nd

Mechanical Specification

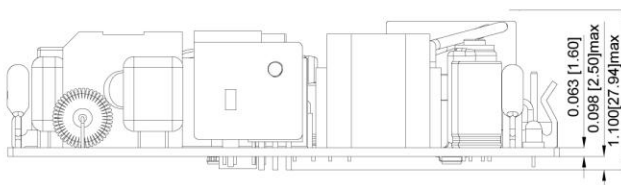
All Dimensions In Inches[mm]

Tolerance: Inches:x.xx = ± 0.02 , x.xxx = ± 0.010
 Millimeters:x.x = ± 0.5 , x.xx = ± 0.25



CN1:

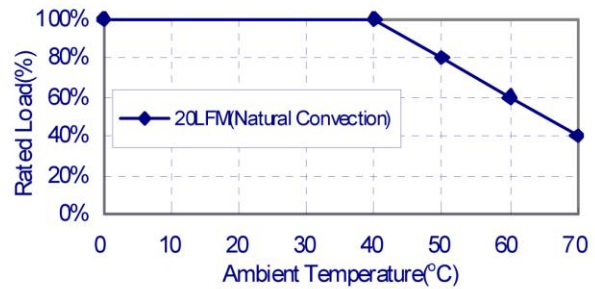
PIN CONNECTION	
Pin	Function
1	Line
2	Not Fitted
3	Neutral



CN2:

PIN CONNECTION	
Pin	Function
1	Vout(+)
2	Vout(+)
3	Vout(-)
4	Vout(-)

CFM101S Series Derating Curve



NOTE:

1. Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to output for Ripple & Noise measurement @20MHz BW.
2. Voltage accuracy is set at 100% full load.
3. Line regulation is measured from high line to low line with full load.
4. Load regulation is measured from 10% to 100% full load.
5. Typical efficiency at 230VAC and full load at 25°C.
6. Input connector mates with Molex housing 09-50-3031 and Molex 2878 series crimp terminal.
7. Output connector mates with Molex housing 09-50-3041 and Molex 2878 series crimp terminal.