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20W Open Frame type Single output power supply > CFM20



Features

- * Universal Input Range 85~264Vac
- * Efficiency to 81%
- * Industry Standard Pin Out
- * Meets EN55032 Class B
- * Continuous Short Circuit Protection
- * PCB Mountable Type is Available



| MODEL | OUTPUT VOLTAGE | MAX. LOAD | MIN. LOAD | RIPPLE & NOISE NOTE 1 | VOLTAGE ACCURACY NOTE 2 | LINE REGULATION NOTE 3 | LOAD REGULATION NOET 4 | % EFF. (Typ.) NOET 5 |
|----------|----------------|-----------|-----------|--------------------------|----------------------------|---------------------------|---------------------------|----------------------------|
| CFM2001S | 5 V | 4400 mA | 0 A | 1% | ±1% | ±0.5% | ±1% | 72% |
| CFM2002S | 12 V | 1800 mA | 0 A | 1% | ±1% | ±0.5% | ±1% | 79% |
| CFM2003S | 15 V | 1400 mA | 0 A | 1% | ±1% | ±0.5% | ±1% | 80% |
| CFM2005S | 24 V | 920 mA | 0 A | 1% | ±1% | ±0.5% | ±1% | 81% |
| CFM2007S | 3.3 V | 4400 mA | 0 A | 50mV | ±1% | ±0.5% | ±1% | 66% |
| CFM2009S | 9 V | 2450 mA | 0 A | 1% | ±1% | ±0.5% | ±1% | 76% |

Specifications are subject to change without notice.



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Specifications

INPUT SPECIFICATIONS:

Voltage 85~264Vac
 120~370Vdc
 Frequency 47 to 63Hz
 Inrush Current 40A max. @230Vac
 Conducted EMI CISPR/FCC Class B
 Leakage Current 3.5mA max.

OUTPUT SPECIFICATIONS:

Holdup Time 16ms typ. @115Vac
 Short Circuit Protection Hiccup Mode (Auto Recovery)
 Over Voltage Protection TVS Component to Clamp
 Temperature Coefficient $\pm 0.05\%/^{\circ}\text{C}$ max.

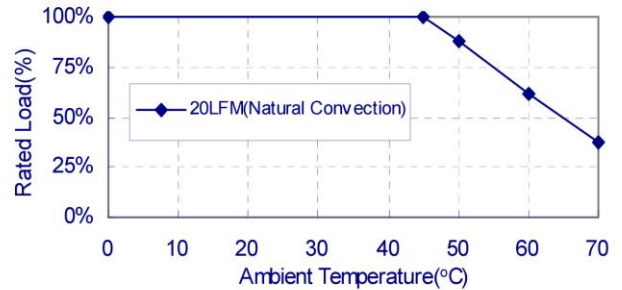
GENERAL SPECIFICATIONS:

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 67KHz Typical
 MTBF MIL-HDBK-217F, GB, 25°C/115VAC 300Khrs min.
 Altitude 2000m
 Dimensions 3.501x2.000x0.906Inches (88.92x50.80x23.00mm)
 (CFM200XS-P) 3.501x2.000x1.000Inches (88.92x50.80x25.40mm)
 Weight 100g(0.22 Pounds)

SAFETY AND EMC:

Emission and Immunity EN55032 Class B
 EN61000-6-3, EN61000-3-2, EN61000-3-3
 EN55024, EN61204-3, EN61000-6-1
 Safety EN/IEC/UL 60950-1, EN/IEC/UL 62368-1

CFM20S Series Derating Curve

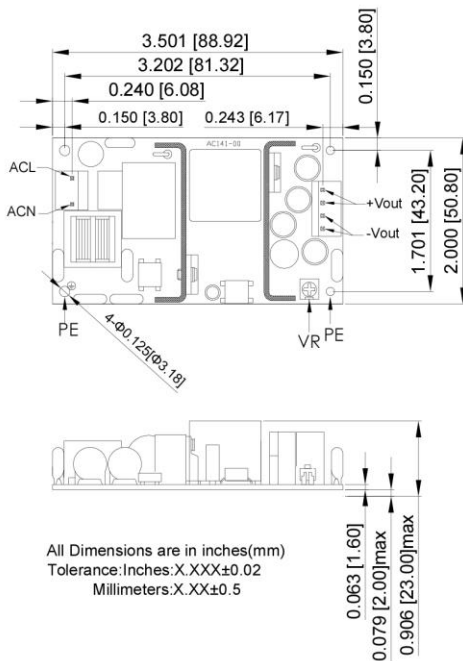


NOTE:

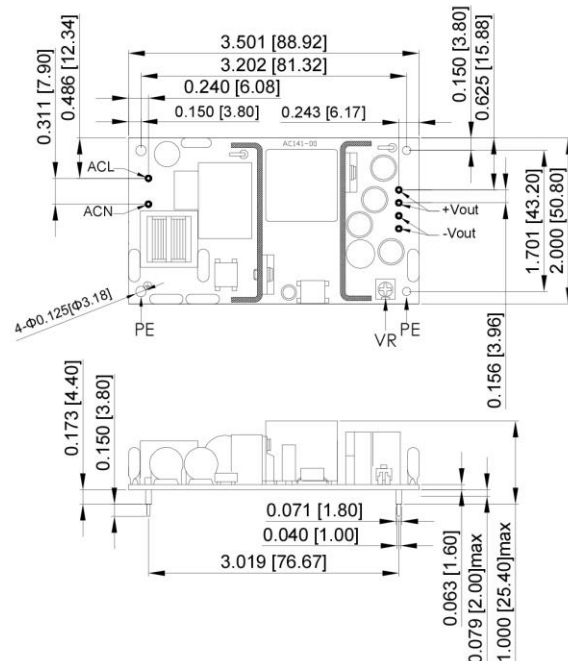
1. Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to output for Ripple & Noise measuring @20MHz BW.
2. Voltage accuracy is set at 100% rated load and 25°C Ta.
3. Line regulation is measured from high line to low line with full load.
4. Load regulation is measured from full to 10% load.
5. Typical efficiency at 230VAC and full load at 25°C.
6. Standard input and output connectors wafer with LONG CHU P3060 series and mate with MOLEX housing 5195 series or equivalent.
7. Model "CFM200XS-P": Connectors with pcb mountable type.

Mechanical Specification

CFM20XXS Series



CFM20XXS-P Series



Typical at 25°C, nominal line and 75% load, unless otherwise Specified