CFM20 SERIES

20 WATT OPEN FRAME AC-DC MODULES

E176177

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.

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 ..... ±0.05%/℃ max.

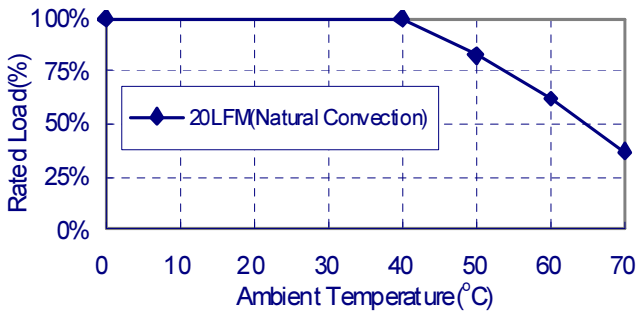
GENERAL SPECIFICATIONS:

Isolation ..... Input to output = 4,242VDC
Operating Temperature ..... 0 ~ 70℃ (See Derating Curve)
Storage Temperature ..... -20~85℃
Humidity ..... 93% RH max. Non Condensing
Cooling ..... Natural Convection
Switching Frequency ..... 67KHz Typical
MTBF ..... MIL-HDBK-217F, GB, 25℃/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

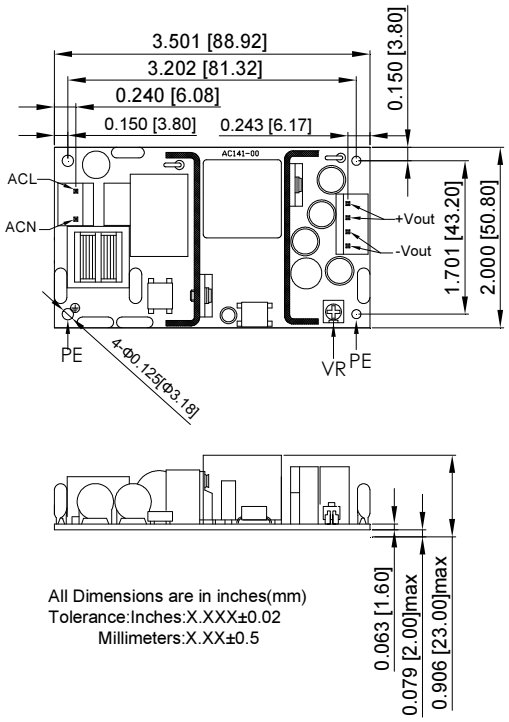


NOTE:

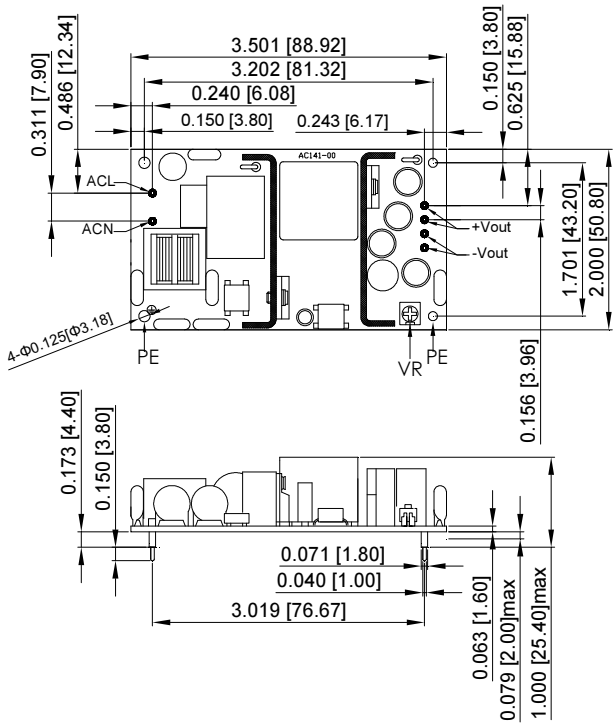
1. Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to output for Ripple & Noise measuring @20MHz BW.
2. Voltage accuracy is set at 100% rated load and 25℃ Ta.
3. Line regulation is measured from high line to low line with full load.
4. Load regulation is measured from full to 10% load.
5. Typical efficiency at 230VAC and full load at 25℃.
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℃, nominal line and 75% load, unless otherwise Specified