FABRIMEX POWER SUPPLIES
CH-8608 Bubikon/Switzerland

EOL

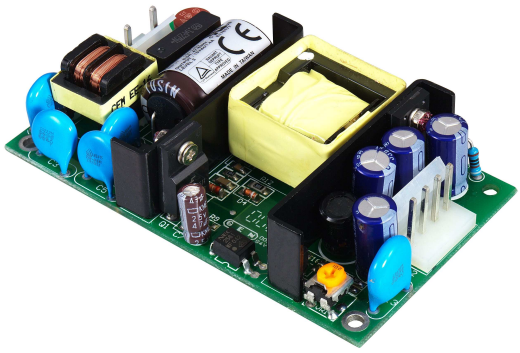
FABRIMEX POWER SUPPLIES

RoHS ✓ Compliant

Certified Management-System SQS ISO 9001
Reg. Nr. 12666

CFM-20 Series

20 Watt Single Output Open Frame AC/DC Module



Features

Universal Input Range 90-264VAC
Efficiency to 83%
Continuous Short Circuit Protection
Over Voltage Protection
PCB Mountable
Leakage Current 0.25mA Max.
Safety IEC/EN/UL60950-1
IEC/EN/UL 62368-1 pending
Meets EN55032 Class B

c UL us
QQGQ2.E195564

Model	Output voltage	Max. load	Ripple & Noise	Voltage accuracy	Line regulation	Load regulation	Efficiency (Typ.)
CFM-2007S	3.3V	4.4A	50mV	±1%	±0.5%	±1%	66 %
CFM-2001S	5V	4.4A	50mV	±1%	±0.5%	±1%	72 %
CFM-2009S	9V	2.45A	90mV	±1%	±0.5%	±1%	76 %
CFM-2002S	12V	1.8A	120mV	±1%	±0.5%	±1%	79 %
CFM-2003S	15V	1.4A	150mV	±1%	±0.5%	±1%	80 %
CFM-2005S	24V	0.92A	240mV	±1%	±0.5%	±1%	81 %

SPECIFICATIONS

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

Input specifications:

Voltage ..... 90 – 264Vac
Frequency ..... 47 to 63Hz
Inrush current ..... 40A max. @240Vac
Isolation ..... input to output = 3'000 Vac
Conducted EMI ..... EN55022 Class B
Leakage current ..... 3.5mA max.

Output specifications:

Holdup time ..... 16mS typ. @115Vac
Short circuit protection ..... hiccup mode, continuous
Over voltage protection ..... TVS component to clamp
Temperature coefficient ..... ±0.05%/°C

General specifications: note:

Operating temperature, see derating ..... -40 – 70°C
Storage temperature ..... -40 – 85°C
Altitude 2000m
Cooling ..... natural convection
Switching frequency ..... 67KHz Typical
Humidity ..... 0 – 93% at 25°C
MTBF ..... MIL-STD-217F, GB ..... 300K hrs min

Mechanical characteristics:

Dimensions ..... 88.9 x 50.8 x 23.0mm
Weight 100gr

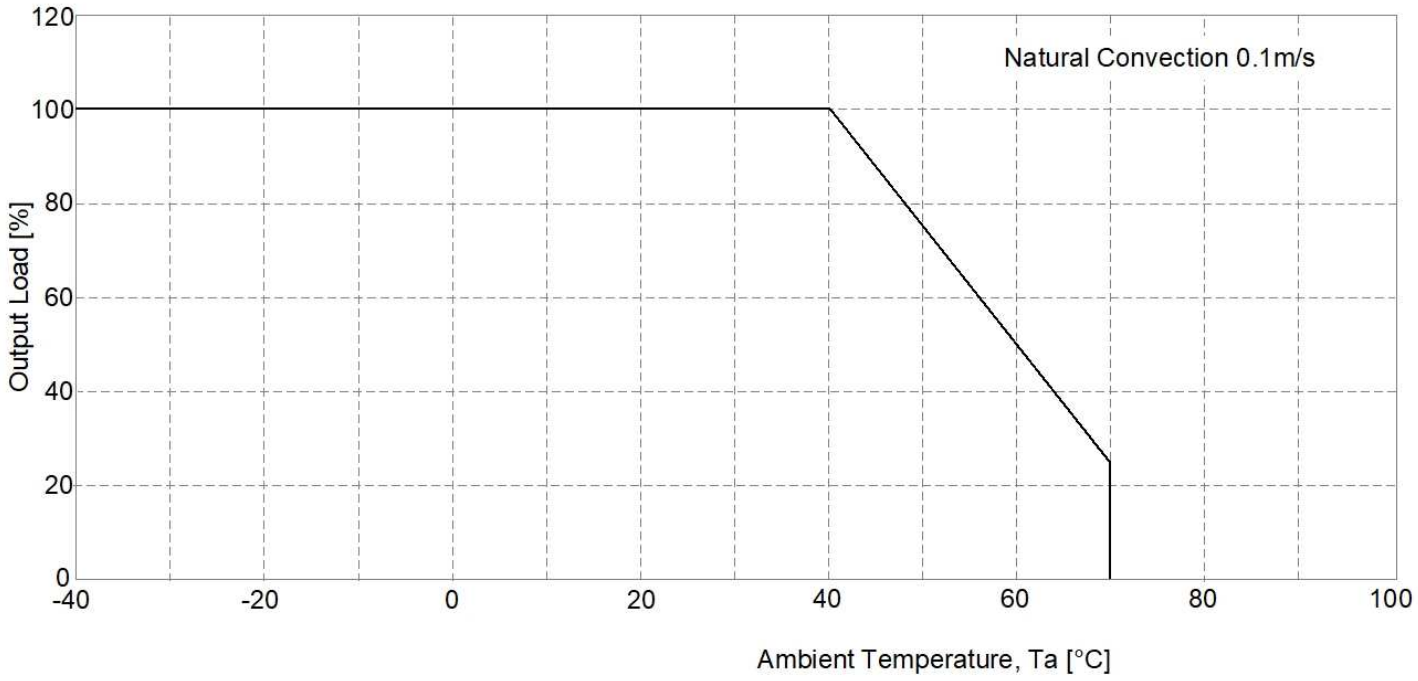
Safety and EMC:

Emission and Immunity ..... EN55022 Class B, EN61000-6-3
..... EN61000-3-2, EN61000-3-3, EN55024
..... EN61204-3, EN61000-6-1
Safety IEC/EN/UL60950-1

Note:

1. Voltage accuracy is set of 100% rated load.
2. Add a 0.1uF ceramic capacitor and a 10uF capacitor to output for ripple & noise measuring @20MHz BW.
3. Line regulation is measured from 240Vac to 100Vac with full load.
4. Load regulation is measured from 100% to 10% load.

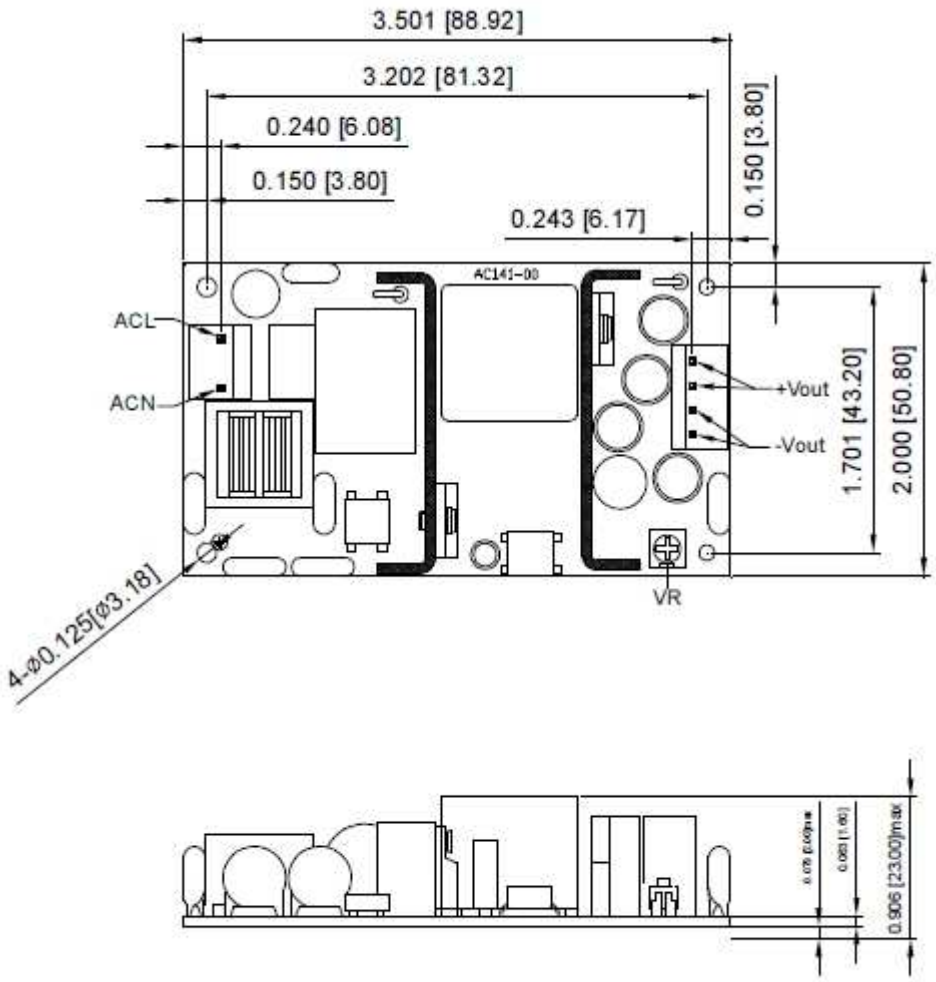
CFM-20 Series Derating Curve



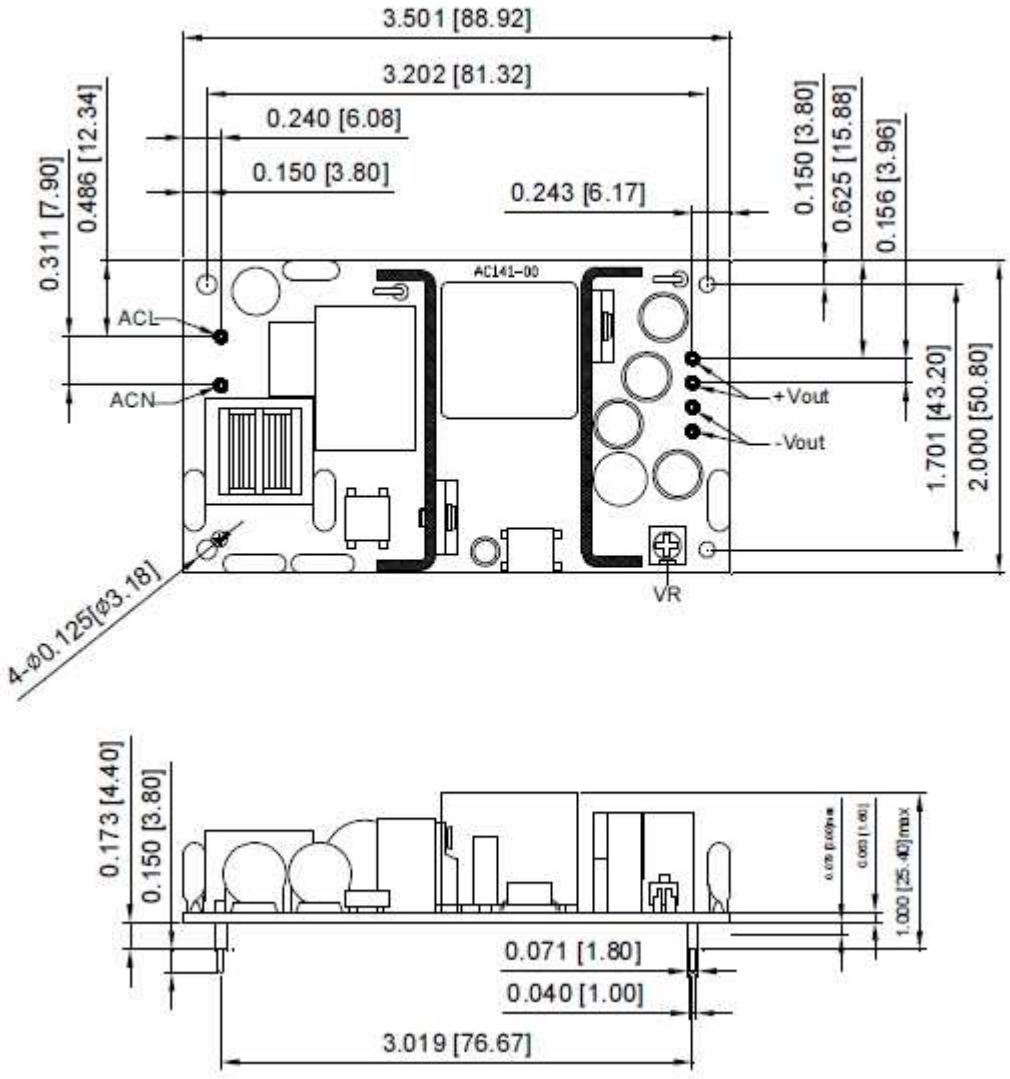
CFM-20 Series Drawings

All Dimensions in Inches (mm)
Tolerance Millimetres: x.x = 0.5

CFM-20xxS series:



CFM-20xxS-P series:



Notice: All statements, technical information, and recommendations related to FABRIMEX's products are based on information believed to be reliable, but the accuracy or completeness thereof is not guaranteed. Before utilizing the product, the user should determine the suitability of the product for its intended use. Specifications can be changed any time without notice.

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