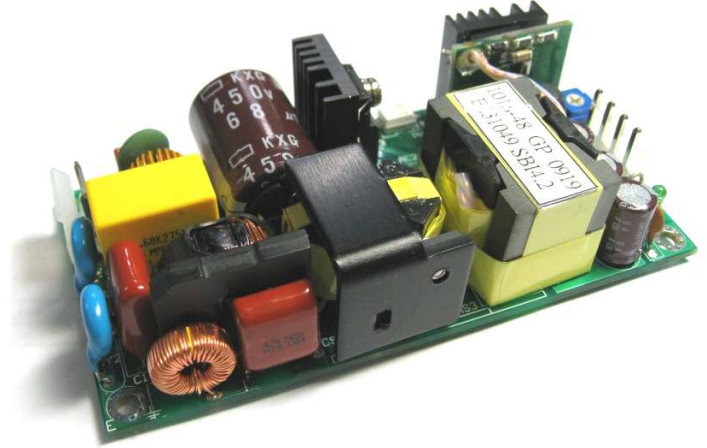# CFM101S SERIES
100 WATT OPEN FRAME
AC-DC MODULES WITH PFC

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.) NOTE5
CFM101S120	12 V	8.4 A	1%	±1%	±0.5%	11.4 ~ 12.6 V	±1%	87%
CFM101S150	15 V	6.7 A	1%	±1%	±0.5%	14.25 ~ 15.75 V	±1%	87%
CFM101S200	20 V	5.0 A	1%	±1%	±0.5%	19 ~ 21 V	±1%	88%
CFM101S240	24 V	4.2 A	1%	±1%	±0.5%	22.8 ~ 25.2 V	±1%	88%
CFM101S480	48 V	2.1 A	1%	±1%	±0.5%	45.6 ~ 50.4 V	±1%	89%

Specifications are subject to change without notice.

Specifications

CFM101S Series Derating Curve

INPUT SPECIFICATIONS:

Voltage …..……..…..………………………………………… 90~264Vac
Frequency …..……………………………………..... 47 to 63Hz
Inrush Current…………….......……. Cold Start @25℃ 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%/℃

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 ………….………………………… 100KHz Typical
MTBF ……… MIL-HDBK-217F, GB, at 25℃/115VAC …….. 200Khrs min.
Altitude ……………………………….…………………………… 2000m
Dimensions …………. 101.6x50.8x27.94 mm(4.000x2.000x1.100 inches)
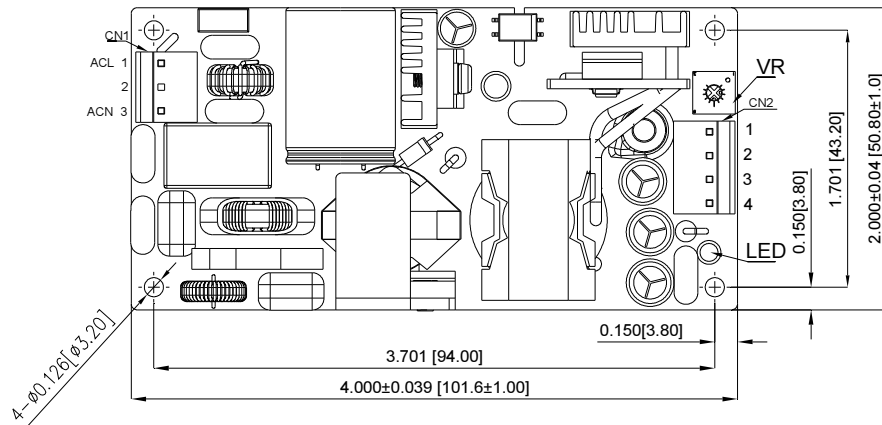Weight ……………………………………………………………… 150g

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 ……… Class I, IEC60950-1 2nd, EN60950-1 2nd, UL60950-1 2nd

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℃.
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.

Mechanical Specification
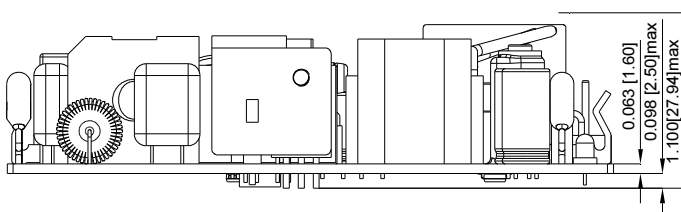
All Dimensions In Inches[mm]

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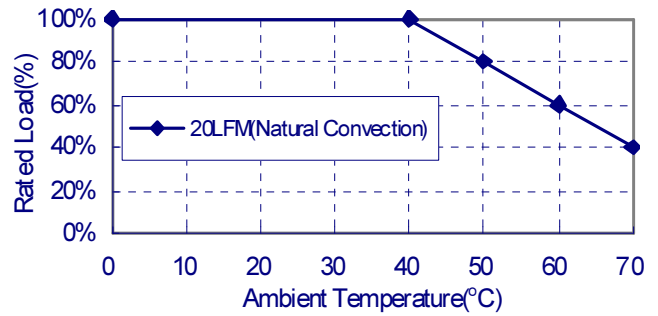   Millimeters:x.x = ± 0.5 , x.xx = ± 0.25

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(-)

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