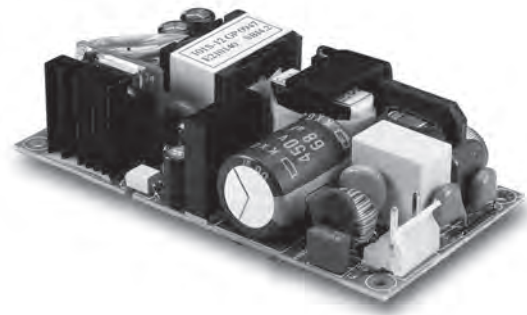


CFM101S

S E R I E S

100 WATT OPEN FRAME AC-DC MODULES WITH PFC



Features

- 100W Single Output
- Universal Input 90-264Vac
- Active PFC Function
- 2" x 4" Size
- Efficiency to 89% Typical
- Continuous Short Circuit Protection
- Meets EN55022 Class B and CISPR/FCC Class B

MODEL	OUTPUT VOLTAGE	MAX. LOAD	MIN. LOAD	RIPPLE & NOISE	VOLTAGE ACCURACY	LINE REGULATION	VOLTAGE ADJ. RANGE	LOAD REGULATION	% EFF> (Typ.)
CFMS101S120	12V	8.4A	0 A	1%	±1%	±0.5%	11.4 ~ 12.6V	±1%	87%
CFMS101S150	15V	6.7A	0 A	1%	±1%	±0.5%	14.25 ~ 15.75V	±1%	87%
CFMS101S200	20V	5.0A	0 A	1%	±1%	±0.5%	19 ~ 21V	±1%	88%
CFMS101S240	24V	4.2A	0 A	1%	±1%	±0.5%	22.8 ~ 25.2V	±1%	88%
CFMS101S480	48V	2.1A	0 A	1%	±1%	±0.5%	45.6 ~ 50.4V	±1%	89%

Note: Typical efficiency at 230 VAC and full load at 25°C.

Specifications

INPUT SPECIFICATIONS:

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

OUTPUT SPECIFICATIONS:

Holdup Time 10mS typ. @115Vac
 Short Circuit Protection Continuous
 Over Voltage Protection TVS Component to Clamp
 Temperature Coefficient $\pm 0.05\%/^{\circ}\text{C}$

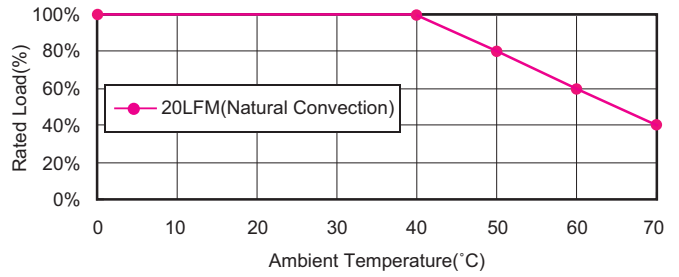
GENERAL SPECIFICATIONS:

Isolation Input to output = 4,242VDC
 Operating Temperature $0^{\circ}\text{C} \sim 70^{\circ}\text{C}$ (see Derating Curve)
 Storage Temperature $-20 \sim 85^{\circ}\text{C}$
 Humidity 93% RH max. Non-Condensing
 Cooling Natural Convection
 Switching Frequency 100KHz Typical
 MTBF MIL-HDBK-217F, GB, $25^{\circ}\text{C}/115\text{VAC}$ 200K hrs
 Altitude 2000m
 Dimensions 101.6x50.8x25.4mm(2.0x4.0x1.0Inches)
 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

CFM101S 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. Line regulation is measured from High Line to Low Line with full load.
3. Load regulation is measured from full to 10% load.
4. Input connector mates with Molex housing 09-50-3031 and Molex 2878 series crimp terminal.
5. Output connector mates with Molex housing 09-50-3041 and Molex 2878 series crimp terminal.

CFM101S Series

All Dimensions In Inches(mm)
 Tolerance Inches: x.xxx= ± 0.02
 Millimeters: x.xx= ± 0.5

