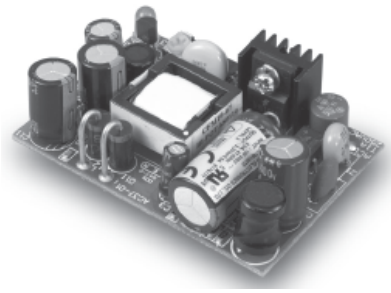
CFM10/15 SERIES

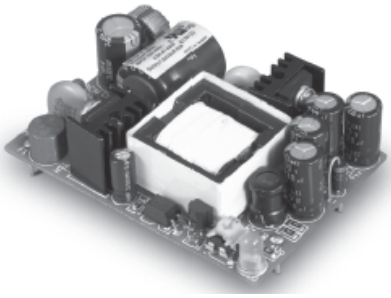
10/15 WATT OPEN FRAME AC-DC MODULES

E176177

Features

* Universal Input Range 85~264VAC
* Efficiency to 83%
* Meets EN55022 Class B
* Continuous Short Circuit Protection
* Leakage Current 0.25mA Max.
* PCB Mountable





CFM10 Series

MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE & NOISE NOTE 1	VOLTAGE ACCURACY	LINE REGULATION NOET 2	LOAD REGULATION NOTE 3	% EFF. (Typ.) NOTE 4
CFM1001S	5V	2000mA	1%	±1%	±0.5%	±1%	73%
CFM1002S	12V	840mA	1%	±1%	±0.5%	±1%	76%
CFM1003S	15V	670mA	1%	±1%	±0.5%	±1%	76%
CFM1005S	24V	420mA	1%	±1%	±0.5%	±1%	77%
CFM1007S	3.3V	2500mA	50mV	±1%	±0.5%	±1%	67%
CFM1009S	9V	1120mA	1%	±1%	±0.5%	±1%	72%

CFM15 SERIES

MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE & NOISE NOET 1	VOLTAGE ACCURACY	LINE REGULATION NOTE 2	LOAD REGULATION NOTE 3	%EFF. (Typ.) NOTE 4
CFM1501S	5V	3000mA	1%	±1%	±0.5%	±1%	74%
CFM1502S	12V	1250mA	1%	±1%	±0.5%	±1%	80%
CFM1503S	15V	1000mA	1%	±1%	±0.5%	±1%	81%
CFM1505S	24V	630mA	1%	±1%	±0.5%	±1%	83%
CFM1507S	3.3V	3000mA	50mV	±1%	±0.5%	±1%	69%
CFM1509S	9V	1670mA	1%	±1%	±0.5%	±1%	76%

Specifications are subject to change without notice

Specifications

INPUT SPECIFICATIONS:

Voltage ..... 85~264Vac
Frequency ..... 47 to 63Hz
Input Current ..... 100Vac/0.5A max., 240Vac/0.25A
Inrush Current ..... Cold Start@25℃ ..... 20A max. @115Vac
40A max. @230Vac
Leakage Current ..... 0.25mA max.

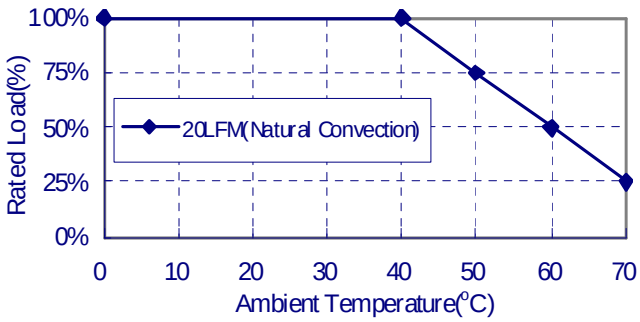
OUTPUT SPECIFICATIONS:

Holdup Time ..... 16ms typ. @115Vac
Short Circuit Protection ..... Hiccup Mode (Auto Recovery)
Over Voltage Protection ..... TVS Component to Clamp
Temperature Coefficient ..... 0.05%/℃

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 ..... CFM10: 100KHz Typical
CFM15: 67KHz Typical
MTBF ..... MIL-HDBK-217F, GB, at 25℃/115VAC ..... 200Khrs min.
Altitude 2000m
Dimensions ... CFM10: 2.599x1.772x0.906Inches (65.00x45.00x23.00mm)
CFM15: 2.752x1.890x0.906Inches (69.90x48.00x23.00mm)
Weight CFM10: 60g (0.13Pounds)
CFM15: 80g (0.18Pounds)

CFM10/15 Series Derating Curve



SAFETY AND EMC:

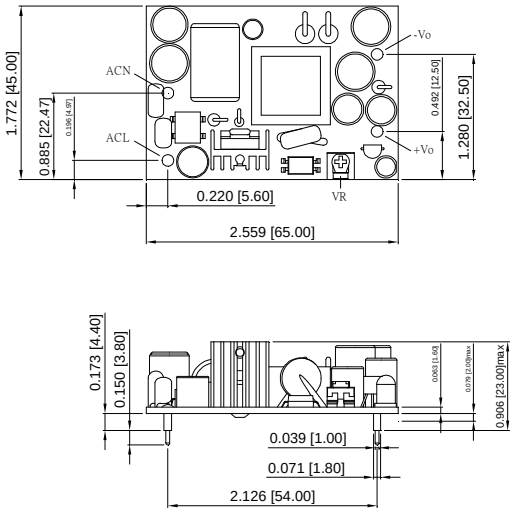
Emission and Immunity ..... EN55022 Class B, EN61000-6-3
EN61000-3-2, EN61000-3-3, EN55024
EN61204-3, EN61000-6-1
Safety IEC60950-1, EN60950, UL60950-1

NOTE:

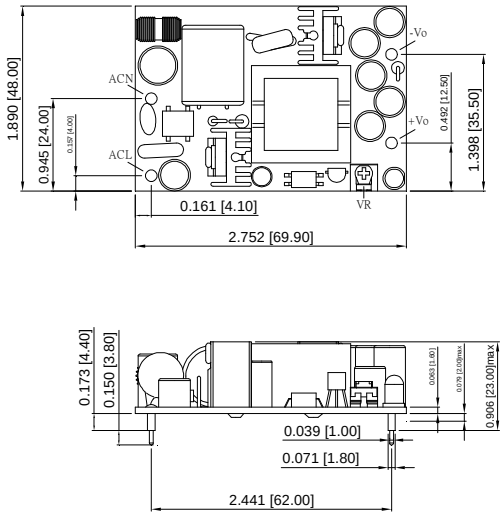
1. Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to output for Ripple & Noise measuring @20MHz BW.
2. Line regulation is measured from high line to low line with full load.
3. Load regulation is measured from full to 10% load.
4. Typical efficiency with 230VAC and max. load 25℃.

CFM10 Series

All Dimensions are in inches(mm)
Tolerance:Inches:X.XXX±0.02
Millimeters:X.XX±0.5



CFM15 Series



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