



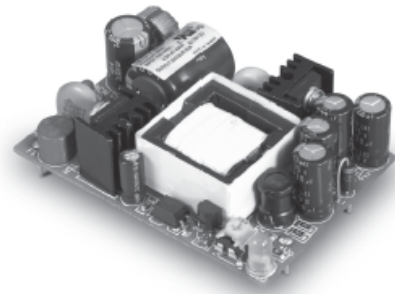
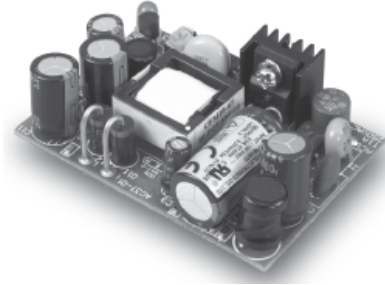
# CFM10/15 SERIES

## 10/15 WATT OPEN FRAME AC-DC MODULES



### 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 NOTE 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 NOTE 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

### INPUT SPECIFICATIONS:

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

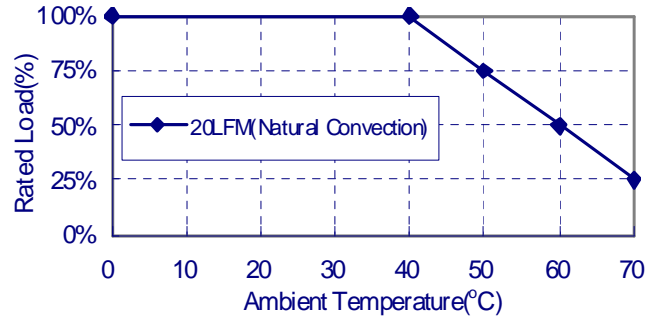
### OUTPUT SPECIFICATIONS:

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

### GENERAL SPECIFICATIONS:

Isolation ..... Input to output = 4,242VDC  
 Operating Temperature ..... 0 ~ 70°C (see derating curve)  
 Storage Temperature ..... -20~85°C  
 Humidity ..... 93% RH max. Non condensing  
 Cooling ..... Natural Convection  
 Switching Frequency ..... CFM10: 100KHz Typical  
 CFM15: 67KHz Typical  
 MTBF ..... MIL-HDBK-217F, GB, at 25°C/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:

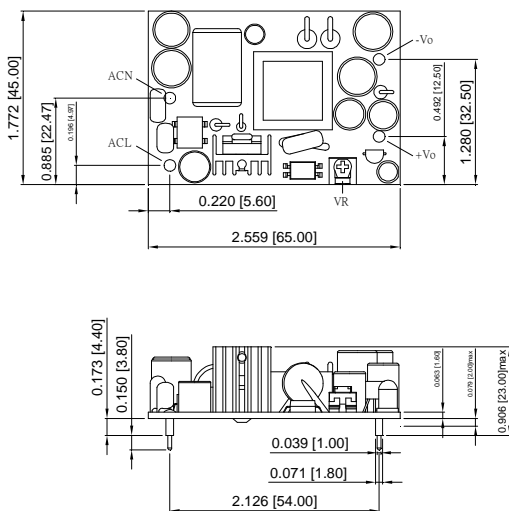
Emission and Immunity ..... EN55022 Class B, EN61000-6-3  
 EN61000-3-2, EN61000-3-3, EN55024  
 EN61204-3, EN61000-6-1  
 Safety ..... IEC60950-1, EN60950, UL60950-1

### NOTE:

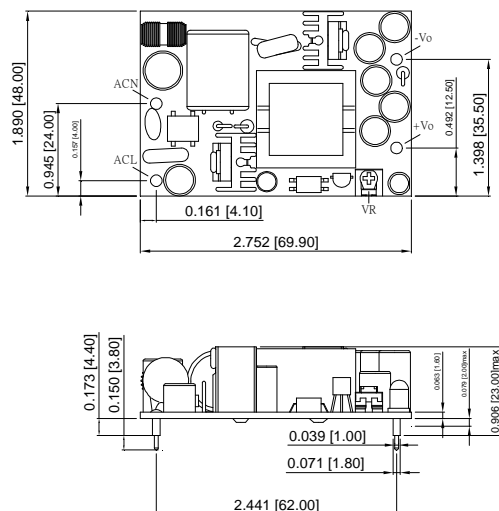
1. Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to output for Ripple & Noise measuring @20MHz BW.
2. Line regulation is measured from high line to low line with full load.
3. Load regulation is measured from full to 10% load.
4. Typical efficiency with 230VAC and max. load 25°C.

### 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

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