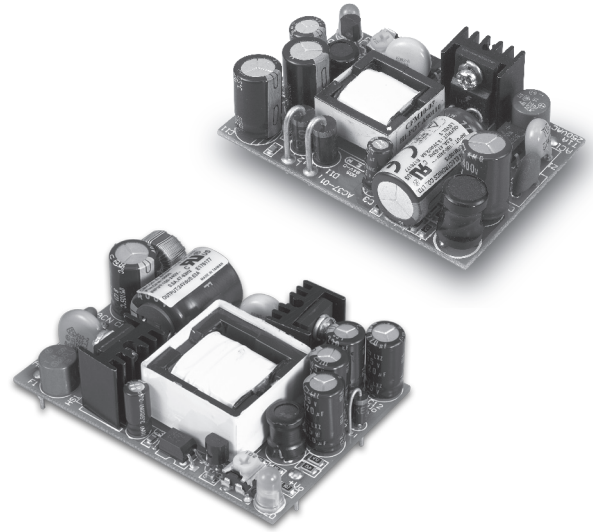


# CFM10/15

S E R I E S

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



### Features

- Universal Input Range  
85~264VAC
- Efficiency to 82%
- Meets EN55022 Class B,  
CISPR/FCC Class B
- Continuous Short Circuit  
Protection
- Leakage Current 0.25mA Max.
- PCB Mountable

### CFM10 Series

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

### CFM15 Series

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

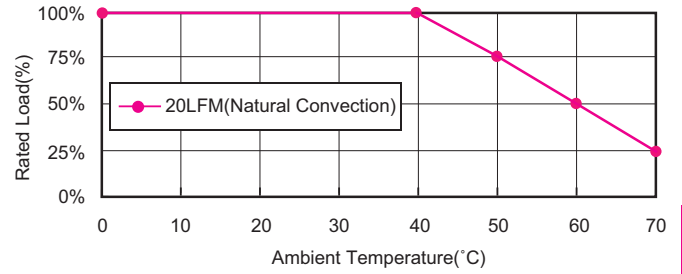
### GENERAL SPECIFICATIONS:

Isolation ..... Input to output = 4,242VDC  
 Operating Temperature ..... 0°C~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 ..... 200K hrs min.  
 Altitude ..... 2000m  
 Dimensions .. CFM10: 2.599x1.772x0.906 inches (65.00x45.00x23.00 mm)  
 CFM15: 2.752x1.890x0.906 inches (69.90x48.00x23.00 mm)  
 Weight ..... CFM10: 60g (0.13Pounds)  
 CFM15: 80g (0.18Pounds)

### 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, EN60950-1, UL60950-1

## CFM10/15 Series Derating Curve

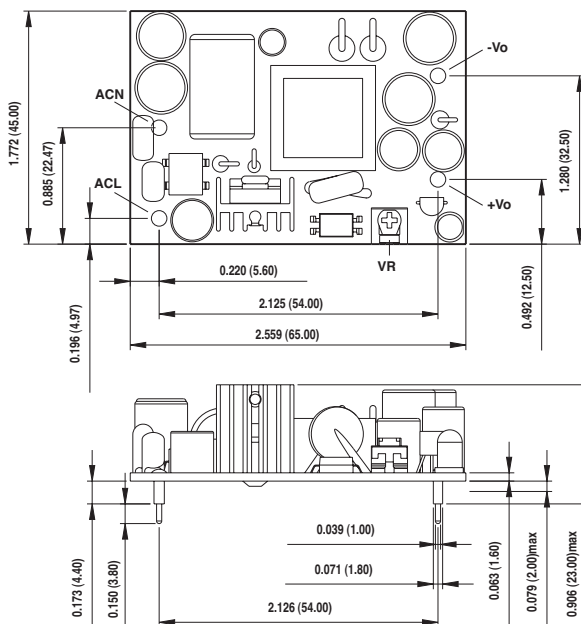


### NOTE:

1. Add a 0.1µF ceramic capacitor and a 10µF 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 230 VAC and max. load at 25°C.

## CFM10 Series

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



## CFM15 Series

