

# CFM10/15

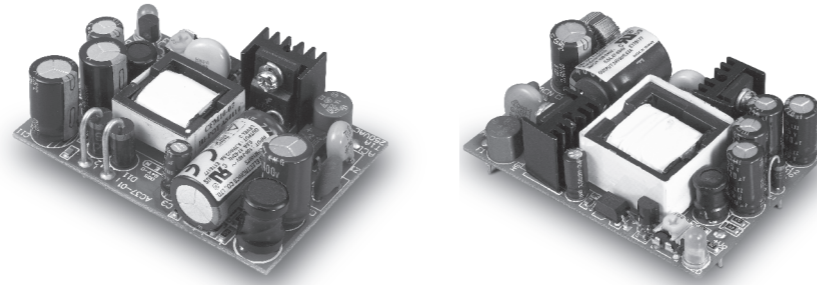
S E R I E S

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



### SMX POWER

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 TEL: (805) 582-2804 FAX: (805) 582-2308  
<http://www.smxpower.com>



#### Features

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

#### CFM10 Series

| MODEL    | OUTPUT VOLTAGE | MAX. LOAD | MIN. LOAD | RIPPLE & NOISE | VOLTAGE ACCURACY | LINE REGULATION | LOAD REGULATION | %EFF     |
|----------|----------------|-----------|-----------|----------------|------------------|-----------------|-----------------|----------|
| CFM1001S | 5 V            | 2000mA    | 0A        | 1%             | ± 1%             | ± 0.5%          | ± 1%            | 73% Typ. |
| CFM1002S | 12 V           | 840mA     | 0A        | 1%             | ± 1%             | ± 0.5%          | ± 1%            | 76% Typ. |
| CFM1003S | 15 V           | 670mA     | 0A        | 1%             | ± 1%             | ± 0.5%          | ± 1%            | 76% Typ. |
| CFM1005S | 24 V           | 420mA     | 0A        | 1%             | ± 1%             | ± 0.5%          | ± 1%            | 77% Typ. |
| CFM1007S | 3.3 V          | 2500mA    | 0A        | 50mV           | ± 1%             | ± 0.5%          | ± 1%            | 67% Typ. |
| CFM1009S | 9 V            | 1120mA    | 0A        | 1%             | ± 1%             | ± 0.5%          | ± 1%            | 73% Typ. |

#### CFM15 Series

| MODEL    | OUTPUT VOLTAGE | MAX. LOAD | MIN. LOAD | RIPPLE & NOISE | VOLTAGE ACCURACY | LINE REGULATION | LOAD REGULATION | %EFF     |
|----------|----------------|-----------|-----------|----------------|------------------|-----------------|-----------------|----------|
| CFM1501S | 5 V            | 3000mA    | 0A        | 1%             | ± 1%             | ± 0.5%          | ± 1%            | 74% Typ. |
| CFM1502S | 12 V           | 1250mA    | 0A        | 1%             | ± 1%             | ± 0.5%          | ± 1%            | 80% Typ. |
| CFM1503S | 15 V           | 1000mA    | 0A        | 1%             | ± 1%             | ± 0.5%          | ± 1%            | 81% Typ. |
| CFM1505S | 24 V           | 630mA     | 0A        | 1%             | ± 1%             | ± 0.5%          | ± 1%            | 83% Typ. |
| CFM1507S | 3.3 V          | 3000mA    | 0A        | 50mV           | ± 1%             | ± 0.5%          | ± 1%            | 69% Typ. |
| CFM1509S | 9 V            | 1670mA    | 0A        | 1%             | ± 1%             | ± 0.5%          | ± 1%            | 76% Typ. |

#### Specifications

##### INPUT SPECIFICATIONS:

Voltage .....85 ~ 264Vac  
 Frequency .....47 to 63Hz  
 Inrush Current.....20A max. @ 115Vac  
 40A max. @ 230Vac  
 Conducted EMI.....CISPR/FCC Class B  
 Isolation .....Input to output =4,242VDC  
 Leakage Current.....0.25mA max

##### OUTPUT SPECIFICATIONS:

Holdup Time .....16mS typ. @115Vac  
 Short Circuit Protection .....Continuous  
 Temperature Coefficient .....0.05% / °C

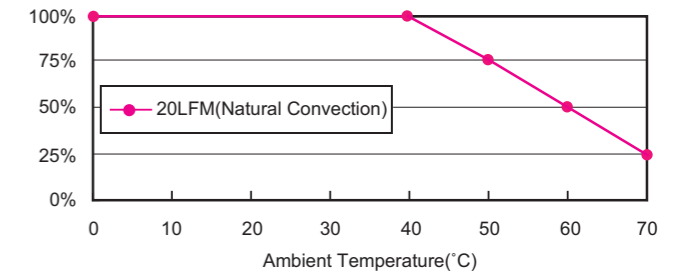
##### ENVIRONMENTAL CHARACTERISTICS:

Operating Temperature .....0 ~ 40°C  
 Storage Temperature .....-20 ~ 85°C  
 Cooling .....Natural Convection

##### MECHANICAL CHARACTERISTICS:

Dimensions .....CFM10: 65.00 x 45.00 x 23.00mm(2.559 x 1.772 x 0.906 Inches)  
 CFM15: 69.90 x 48.00 x 23.00mm(2.752 x 1.890 x 0.906 Inches)  
 Weight .....CFM10: 60g (0.13 Pounds)  
 CFM15: 80g (0.18 Pounds)

#### CFM10/15 Series Derating Curve

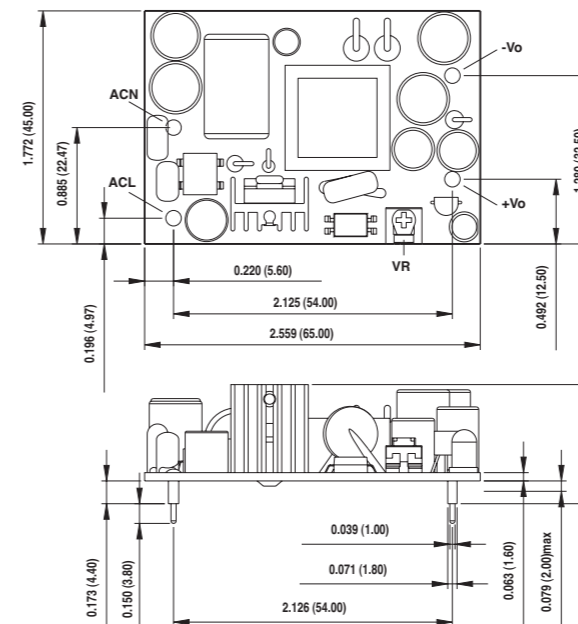


#### NOTE:

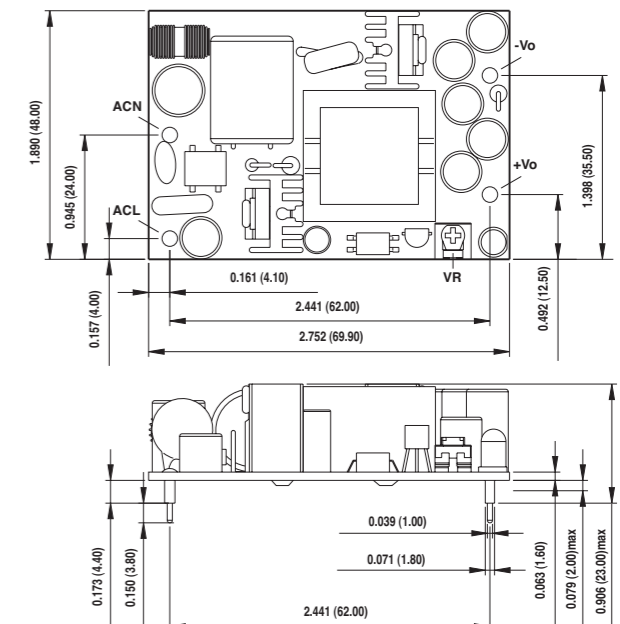
1. Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to output for Ripple & Noise measuring @20MHz BW.
2. Line regulation is measured from high line to low line with full load.
3. Load regulation is measured from full to 10% load

#### CFM10 Series

All Dimensions 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