



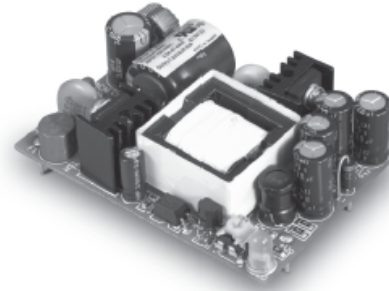
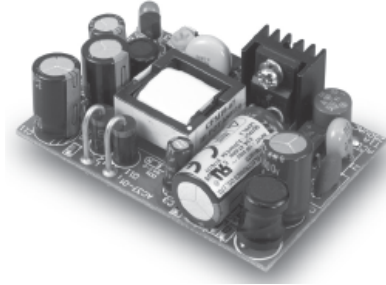
CFM10/15 SERIES

10/15 WATT OPEN FRAME AC-DC MODULES



Features

- * Universal Input Range 85~264VAC
- * Efficiency to 83%
- * Meets EN55032 Class B
- * Approved IEC/EN/UL62368-1
- * 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

INPUT SPECIFICATIONS:

| | |
|-----------------------|-------------------------------------|
| Voltage | 85~264Vac |
| | 120~370Vdc |
| 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. |

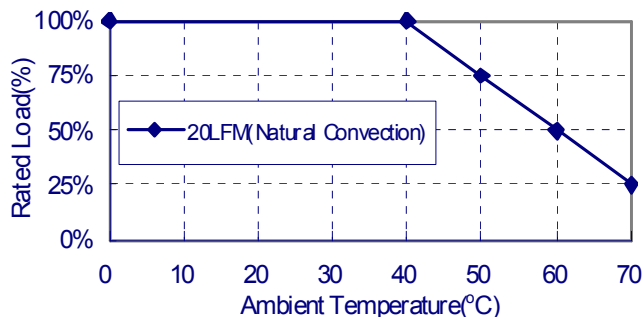
OUTPUT SPECIFICATIONS:

| | |
|--------------------------------|-----------------------------|
| 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 = 3000VAC |
| 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 | EN55032 Class B, EN61000-6-3 |
| | EN61000-3-2, EN61000-3-3, EN55024 |
| | EN61204-3, EN61000-6-1 |
| Safety | IEC/EN/UL62368-1, IEC/EN/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.

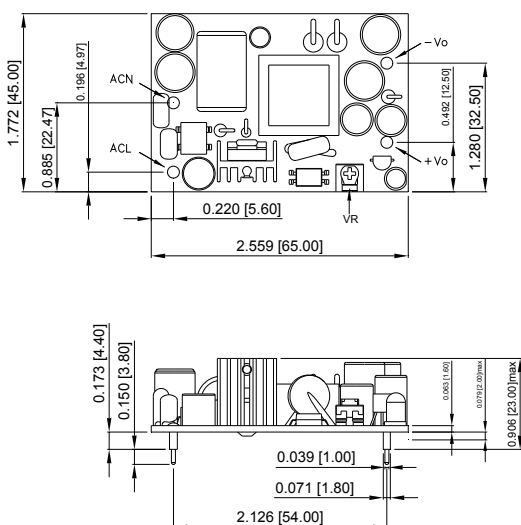
Mechanical Specification

All Dimensions are in inches(mm)

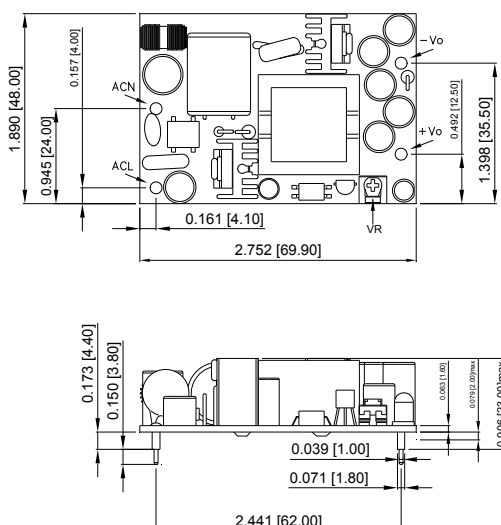
Tolerance:Inches:X.XXX±0.02

Millimeters:X.XX±0.5

CFM10 Series



CFM15 Series



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