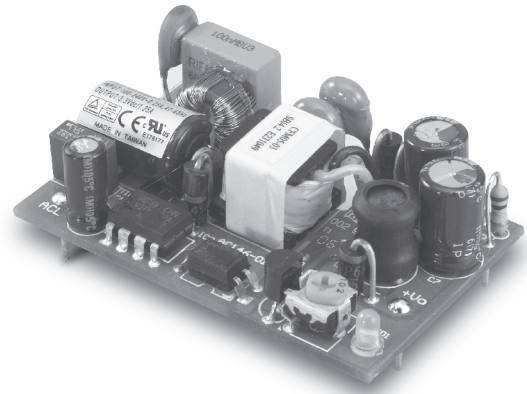


# CFM05

S E R I E S

## 5 WATT OPEN FRAME AC-DC MODULES



### Features

- Universal Input Range  
85~264VAC
- Efficiency to 80%
- Meets EN55022 Class B
- Continuous Short Circuit Protection
- Low Leakage Current 0.25mA Max.
- PCB Mountable

| MODEL     | OUTPUT VOLTAGE | OUTPUT CURRENT (A) | RIPPLE (mVp-p) NOTE 1 | VOLTAGE ACCURACY NOTE 2 | LINE REGULATION NOTE 3 | LOAD REGULATION NOTE 4 | % EFF. (Typ.) NOTE 5 |
|-----------|----------------|--------------------|-----------------------|-------------------------|------------------------|------------------------|----------------------|
| CFM05S033 | 3.3 V          | 1.25 A             | 50 mV                 | ± 1%                    | ± 0.5%                 | ± 1%                   | 69%                  |
| CFM05S050 | 5.0 V          | 1.0 A              | 50 mV                 | ± 1%                    | ± 0.5%                 | ± 1%                   | 73%                  |
| CFM05S090 | 9.0 V          | 0.55 A             | 90 mV                 | ± 1%                    | ± 0.5%                 | ± 1%                   | 77%                  |
| CFM05S120 | 12.0 V         | 0.42 A             | 120 mV                | ± 1%                    | ± 0.5%                 | ± 1%                   | 77%                  |
| CFM05S150 | 15.0 V         | 0.33 A             | 150 mV                | ± 1%                    | ± 0.5%                 | ± 1%                   | 78%                  |
| CFM05S180 | 18.0 V         | 0.28 A             | 180 mV                | ± 1%                    | ± 0.5%                 | ± 1%                   | 79%                  |
| CFM05S240 | 24.0 V         | 0.23 A             | 240 mV                | ± 1%                    | ± 0.5%                 | ± 1%                   | 76%                  |

## Specifications

### INPUT SPECIFICATIONS:

Voltage ..... 85~264Vac  
 Frequency ..... 47 to 63Hz  
 Inrush Current..... 40A max. @240Vac  
 Conducted EMI..... CISPR/FCC Class B  
 Leakage Current..... 0.25mA max.

### OUTPUT SPECIFICATIONS:

Holdup Time ..... 8ms typ. @115Vac  
 Short Circuit Protection ..... Continuous (Auto Recovery)  
 Over Voltage Protection ..... TVS Component to Clamp  
 Temperature Coefficient .....  $\pm 0.05\%/^{\circ}\text{C}$

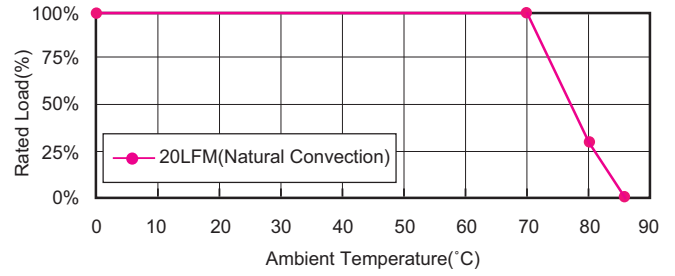
### EGENERAL SPECIFICATIONS:

Isolation ..... Input to output = 4,242VDC  
 Operating Temperature .....  $0^{\circ}\text{C} \sim 85^{\circ}\text{C}$  (see derating curve)  
 Storage Temperature .....  $-20 \sim 85^{\circ}\text{C}$   
 Humidity ..... 93% RH max. Non condensing  
 Cooling ..... Natural Convection  
 Switching Frequency ..... 60KHz Typical  
 MTBF ..... MIL-HDBK-217F, GB, at  $25^{\circ}\text{C}/115\text{VAC}$  ..... 200Khrs min.  
 Altitude ..... 2000m  
 Dimensions ..... 2.165x1.378x0.827 inches (55.00x35.00x21.00 mm)  
 Weight ..... 35g (0.08 Pounds)

### 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

## CFM05 Series Derating Curve



### NOTE:

1. Add a 0.1 $\mu\text{F}$  ceramic capacitor and a 10 $\mu\text{F}$  E.L. capacitor to output for Ripple & Noise measuring @20MHz BW.
2. Voltage accuracy is set at 100% rated load and  $25^{\circ}\text{C}$ .Ta.
3. Line regulation is measured from 100Vac to 240Vac with full load.
4. Load regulation is measured from 10% to 100% full load.
5. Typical efficiency at 230 VAC and full load at  $25^{\circ}\text{C}$ .

CFM05

## CFM05 Series

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

