

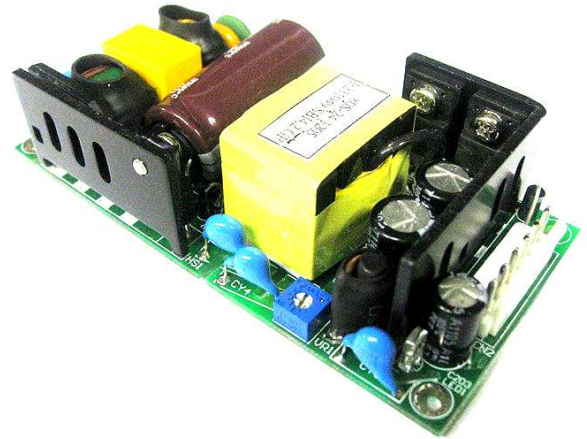


## CFM80S SERIES

### 80W WATT OPEN FRAME AC-DC MODULES

#### Features

- \* Universal Input Range 90~264VAC
- \* Continuous Short Circuit Protection
- \* Efficiency to 90% Typical
- \* Meets EN55022 Class B and CISPR/FCC Class B
- \* Meets EN61000-3-2 Class A
- \* No load Power Consumption < 0.5W
- \* 2" x 4" Size



| MODEL     | OUTPUT VOLTAGE | OUTPUT CURRENT | RIPPLE & NOISE NOTE 2 | VOLTAGE ACCURACY NOTE 1 | VOLTAGE ADJ. Range | LINE REGULATION NOTE 3 | LOAD REGULATION NOTE 4 | %EFF. (Typ.) NOTE 5 |
|-----------|----------------|----------------|-----------------------|-------------------------|--------------------|------------------------|------------------------|---------------------|
| CFM80S050 | 5V             | 12A            | 1%                    | ±1%                     | 4.75~5.25          | ±0.5%                  | ±1%                    | 86%                 |
| CFM80S120 | 12V            | 6.7A           | 1%                    | ±1%                     | 11.4~12.6          | ±0.5%                  | ±1%                    | 89%                 |
| CFM80S150 | 15V            | 5.36A          | 1%                    | ±1%                     | 14.25~15.75        | ±0.5%                  | ±1%                    | 90%                 |
| CFM80S240 | 24V            | 3.35A          | 1%                    | ±1%                     | 22.8~25.2          | ±0.5%                  | ±1%                    | 90%                 |
| CFM80S480 | 48V            | 1.67A          | 1%                    | ±1%                     | 45.6~50.4          | ±0.5%                  | ±1%                    | 90%                 |

Specifications are subject to change without notice.

# Specifications

# CFM80S Series Derating Curve

### INPUT SPECIFICATIONS:

Voltage ..... 90~264Vac  
 Frequency ..... 47 to 63Hz  
 Inrush Current ..... Cold start @25°C 100A max. @240Vac  
 Input Current ..... 100Vac/1.5A max., 240Vac/0.8A max.  
 Leakage Current ..... 3.5mA max.

### OUTPUT SPECIFICATIONS:

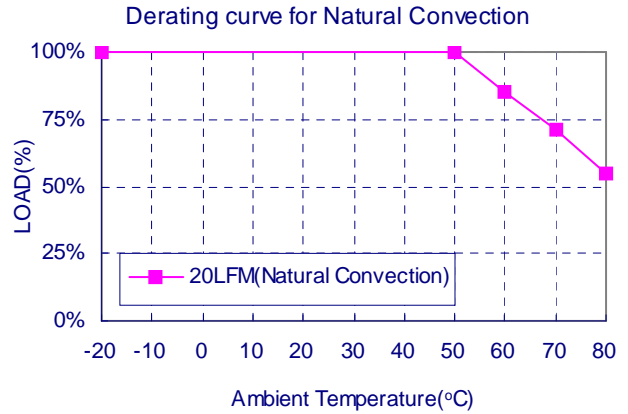
Holdup Time ..... 12mS typ. @115Vac  
 Short Circuit Protection ..... Hiccup Mode (Auto Recover)  
 Over Voltage Protection ..... TVS Component to Clamp  
 Temperature Coefficient ..... ±0.05%/°C

### GENERAL SPECIFICATIONS:

Isolation ..... Input to output = 4,242VDC  
 Operating Temperature ..... -20 ~ 80°C (see derating curve)  
 Storage Temperature ..... -20°C~85°C  
 Humidity ..... 93% RH max. Non-Condensing  
 Cooling ..... Natural Convection  
 Switching Frequency ..... 100KHz Typical  
 Dimensions ..... 4.000x2.000x1.07 inches (101.6x50.8x27.1 mm)  
 Weight ..... 155g

### SAFETY AND EMC:

Emission and Immunity ..... EN55022 CLASS B, FCC Part 15 Class B  
 EN61000-6-3, EN61000-3-2, EN61000-3-3  
 EN55024, EN61204-3, EN61000-6-1  
 Safety ..... IEC60950-1, EN60950-1, UL60950-1

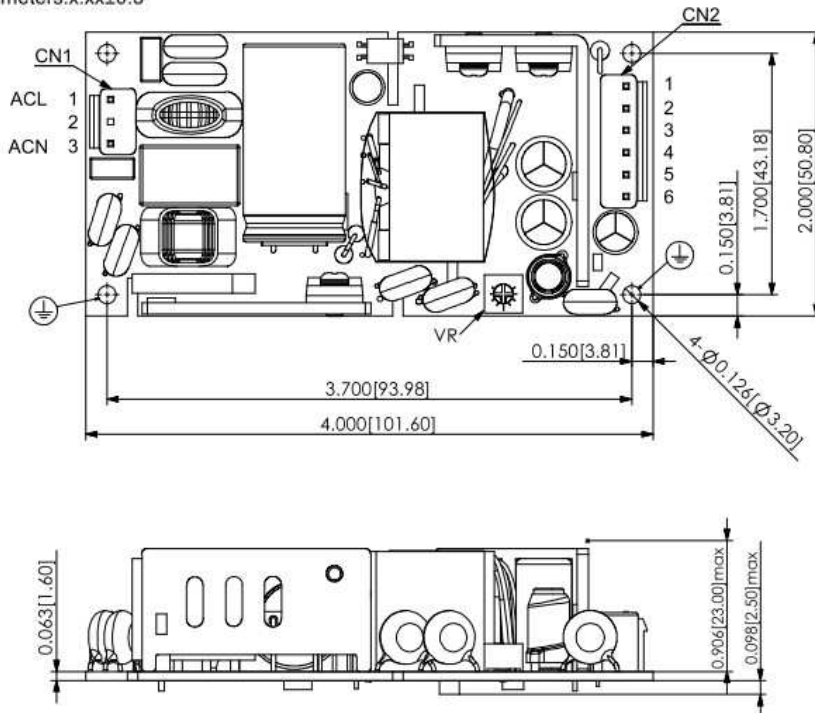


### NOTE:

1. Voltage accuracy is set at full load.
2. Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to output for Ripple & Noise measuring @20MHz BW.
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°C.
6. Standard input and output connectors (CN1 and CN2) wafer with TAIWAN KING PIN TERMINAL PVHI series and mate with JST housing VHR series and JST SVH-21/41T-P1.1 series crimp terminal or equivalent.

## CFM80S Series

All Dimensions in Inches[mm]  
 Tolerance Inches:x.xxx±0.02  
 Millimeters:x.xx±0.5



CN1:

| PIN CONNECTION |            |
|----------------|------------|
| Pin            | Function   |
| 1              | Line       |
| 2              | Not Fitted |
| 3              | Neutral    |

CN2:

| PIN CONNECTION |          |
|----------------|----------|
| Pin            | Function |
| 1              | Vout(+)  |
| 2              | Vout(+)  |
| 3              | Vout(+)  |
| 4              | Vout(-)  |
| 5              | Vout(-)  |
| 6              | Vout(-)  |

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