



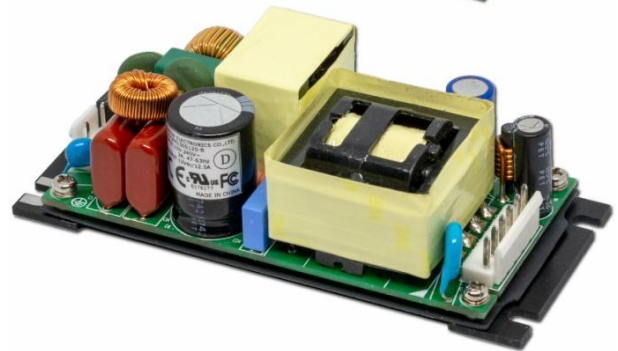
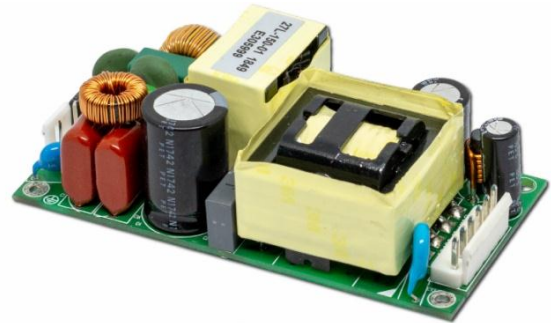
# CFM150S SERIES

## 150 WATT I.T.E AC-DC POWER SUPPLY WITH PFC



### Features

- \* Universal Input 90-264Vac
- \* 2"x 4" Open Frame Compact Size
- \* 120W with Natural Convection
- \* 150W with Base Cooling
- \* No Load Input Power Consumption<150mW
- \* Active PFC Function
- \* High Efficiency up to 94%
- \* Continuous Short Circuit Protection
- \* Meets IEC/EN60335-1/60601-1
- \* EMI Safety Meets Class I & Class II
- \* Operating Altitude 5000m



### Ordering information

**CFM150SXXX - X**

Blank

B: Base Cooling

MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT		RIPPLE & NOISE NOTE 1	VOLTAGE ACCURACY NOTE 2	VOLTAGE ADJ. RANGE	LINE REGULATION NOTE 3	LOAD REGULATION NOTE 4	% EFF. (Typ.) NOTE 5
		Natural Convection	Base Cooling						
CFM150S120	12V	10.0A	12.5A	1%	±1%	±8%	±0.5%	±1%	93%
CFM150S240	24V	5.0A	6.25A	1%	±1%	±8%	±0.5%	±1%	94%
CFM150S280	28V	4.28A	5.35A	1%	±1%	±8%	±0.5%	±1%	94%
CFM150S360	36V	3.33A	4.16A	1%	±1%	±8%	±0.5%	±1%	94%
CFM150S480	48V	2.5A	3.125A	1%	±1%	±8%	±0.5%	±1%	94%

## Specifications

### INPUT SPECIFICATIONS:

Voltage ..... 90~264Vac  
 Frequency ..... 47 to 63Hz  
 Inrush Current ..... Cold start @25°C 100A max. @240Vac  
 Input Current ..... 100Vac/2A max., 240Vac/0.8Amax.  
 Leakage Current ..... 100uA max.

### OUTPUT SPECIFICATIONS:

Holdup Time ..... 25ms typ.20ms min. @115Vac  
 Short Circuit Protection ..... Hiccup Mode (Auto Recover)  
 Over Voltage Protection ..... Latch  
 Temperature Coefficient ..... ±0.05%/°C

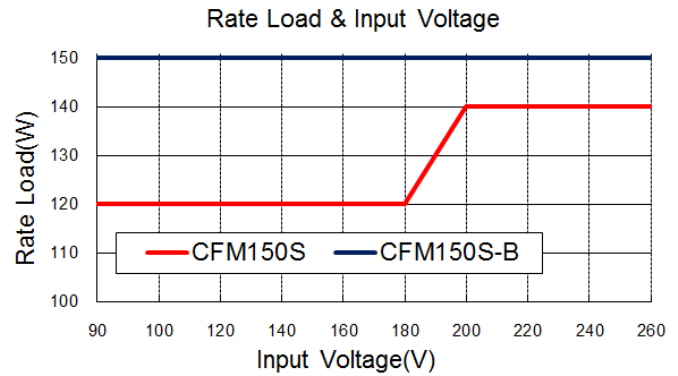
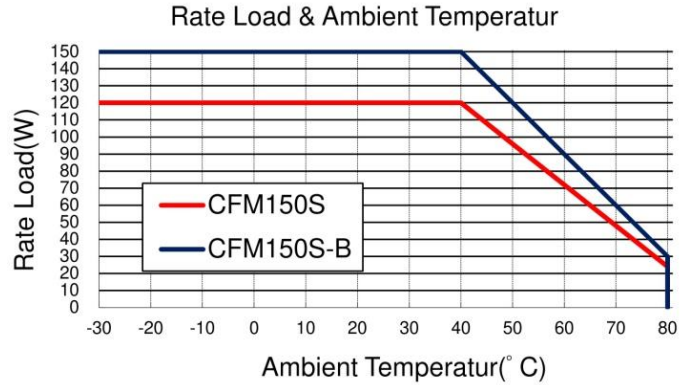
### GENERAL SPECIFICATIONS:

Isolation ..... Input to output = 3000VAC  
 Operating Temperature ..... -30 ~ 80°C (see derating curve)  
 -40°C can be Start-Up  
 Storage Temperature ..... -40 ~ 85°C  
 Humidity ..... 93% RH max. Non condensing  
 Switching Frequency ..... 115 KHz Typical  
 MTBF..... MIL-HDBK-217F, GB, 25°C/115VAC ..... 350Khrs min.  
 Altitude ..... 5000m  
 Life Time ..... 26000 hours min.@ 75% load ,40°C  
 Dimensions ..... 4.00x2.00x1.283 Inches (101.6x50.8x32.6mm)  
 -B 4.598x2.00x1.362 Inches (116.8x50.8x34.6mm)  
 Weight ..... CFM150SXXX 200g  
 CFM150SXXX-B 240g

### SAFETY AND EMC:

Emission and Immunity ... EN55032 Class B, FCC Part 15 Class B (**NOTE 7**)  
 EN61000-3-2, EN61000-3-3, EN61000-6-3, EN61000-6-4  
 Immunity ..... EN55024, EN61204-3, EN61000-6-1, EN61000-6-2  
 Safety ..... Class I & Class II , IEC/EN/UL62368-1

## CFM150S Series Derating Curve

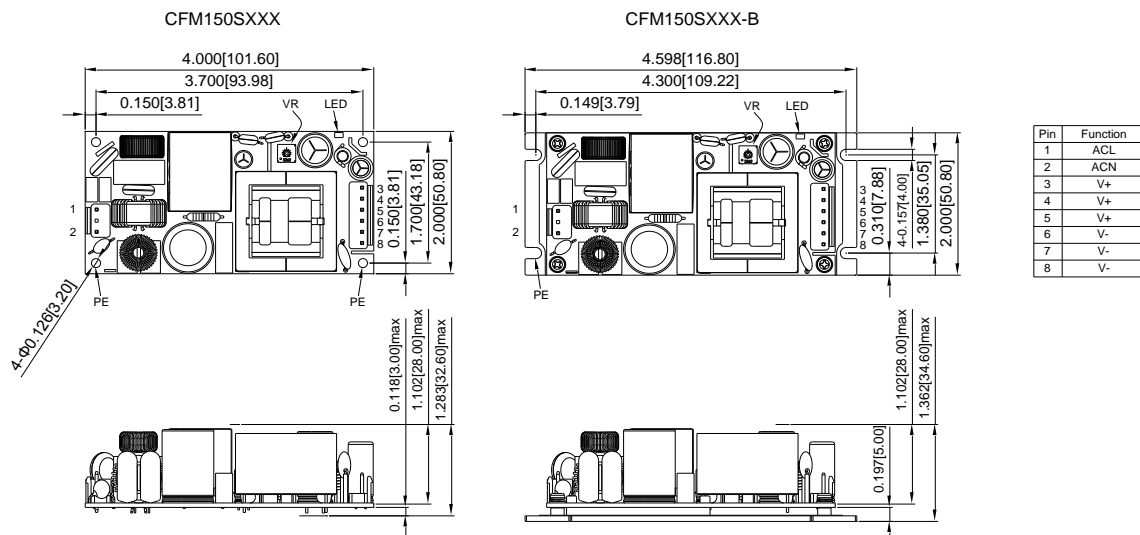


### NOTE:

1. Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to output for ripple & noise measuring @20MHz BW.
2. Voltage accuracy is set at full load.
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 or equivalent.
7. Class I: Radiation & Conduction Class B  
 Class II: Radiation Class A ; Conduction Class B

## Mechanical Specification

All Dimensions are in inches[mm]  
 Tolerance:Inches:X.XXX±0.02  
 Millimeters:X.XX±0.5



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