



E-Star Power Development Co., Ltd. (E-STAR)

1F., No.40, Juren Ln., Sec. 2, Sanmin Rd., Banciao Dist., New Taipei City
22069, Taiwan (R.O.C.)

Phone : 886-2-2957 5580 Fax : 886-2-2957 7473

150W Open Frame type Single output power supply > CFM150S



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 are subject to change without notice.



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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/0.8A max.
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 $\pm 0.05\%/^{\circ}\text{C}$

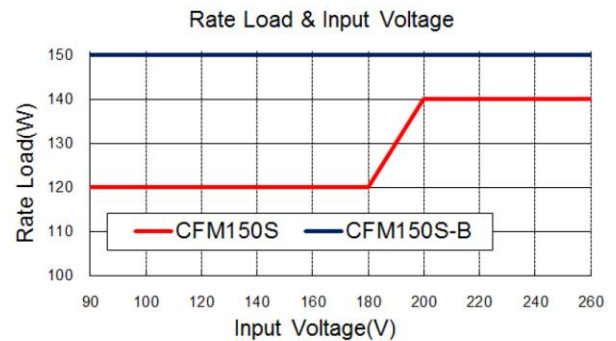
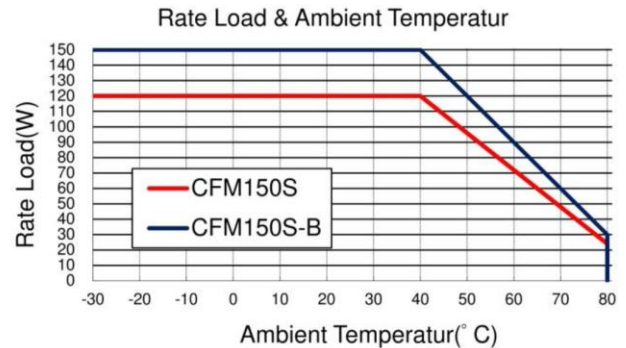
GENERAL SPECIFICATIONS:

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

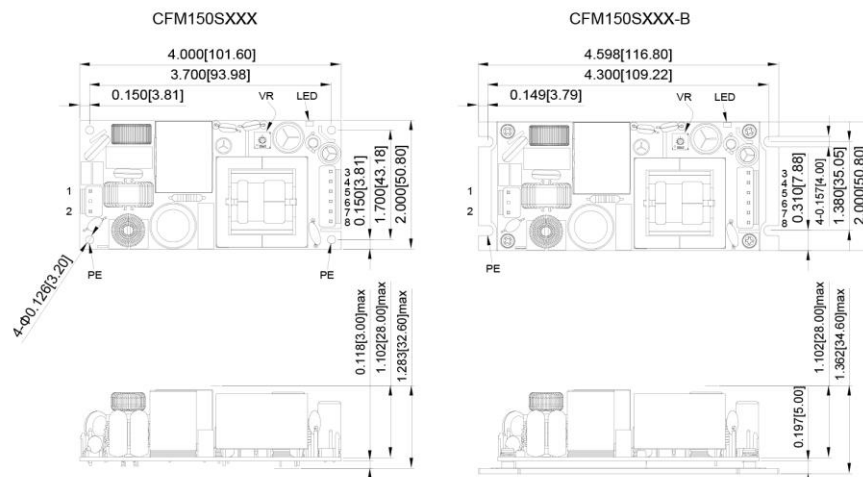


NOTE:

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 PVH 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 \pm 0.02
Millimeters: X.XX \pm 0.5



Pin	Function
1	ACL
2	ACN
3	V+
4	V+
5	V+
6	V-
7	V-
8	V-

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