



CFM41S SERIES

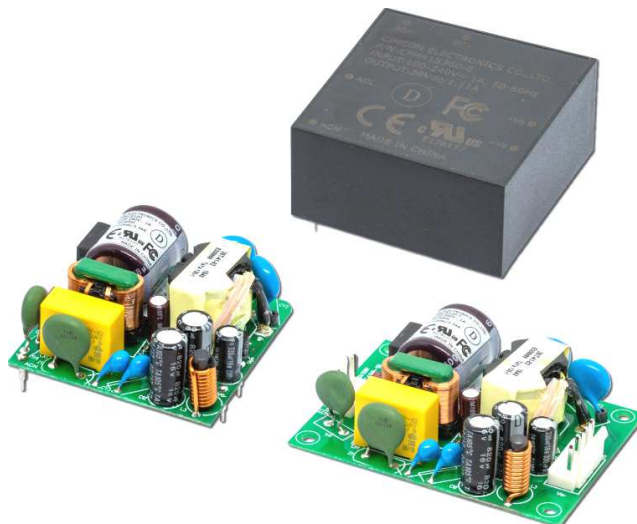
40 WATT SINGLE OUTPUT

AC-DC OPEN FRAME



Features

- * Universal Input 90~264VAC
- * EN55032 Class B and CISPR/FCC Class B
- * Approval IEC/EN/UL 62368-1
- * Meets IEC/EN60335-1
- * Continuous Short Circuit Protection
- * Over Voltage Protection
- * No Load Power Consumption < 0.15W
- * Peak Load (2 Times of Rated Current)
- * Class II



Ordering information

CFM41SXXX-**X**

Blank: PCB mount

E: Encapsulated

T: WAFER

MODEL	Output Voltage	Output Current	PEAK Current NOTE6	Ripple (mV p-p) NOTE1	Voltage Accuracy NOTE2	Line Regulation NOTE3	Load Regulation NOTE4	% EFF. (typ.) NOTE5
CFM41S050	5 V	6 A	12 A	100mV	±2%	±0.5%	±1%	87%
CFM41S120	12 V	3.34 A	6.66 A	120mV	±1%	±0.5%	±1%	90%
CFM41S150	15 V	2.67 A	5.34 A	150mV	±1%	±0.5%	±1%	90%
CFM41S240	24 V	1.67 A	3.34 A	240mV	±1%	±0.5%	±1%	90%
CFM41S360	36 V	1.11 A	2.22 A	360mV	±1%	±0.5%	±1%	90%
CFM41S480	48 V	0.83 A	1.66 A	480mV	±1%	±0.5%	±1%	90%

Specifications

INPUT SPECIFICATIONS:

Voltage 90~264Vac
120~370Vdc
Frequency 47 to 63Hz
Inrush Current 70A max. @240Vac, Cold Start @25°C
Leakage Current 0.25mA max. @ 264Vac
Input Current 100Vac/1A max., 240Vac/0.55A max.

OUTPUT SPECIFICATIONS:

Holdup Time 10ms typ. @115Vac
Short Circuit Protection Hiccup Mode (Auto Recovery)
Temperature Coefficient $\pm 0.05\%/^{\circ}\text{C}$ max.
Over Voltage Protection TVS Component to Clamp
Startup Time 115Vac<2s typ. 230Vac<1s typ.
Switching Frequency 65KHz Typical

GENERAL SPECIFICATIONS:

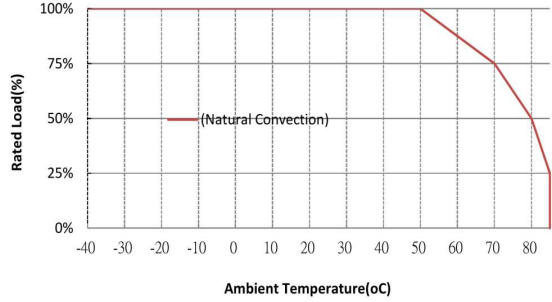
Isolation Voltage (Input to Output) 3000VAC
Operating Temperature -40~85°C (See Derating Curve)
Storage Temperature -40°C~85°C
Cooling Natural Convection
Humidity 93%RH max. Non Condensing
MTBF MIL-HDBK-217F, GB, 25°C/115VAC 350Khrs min
Life time 26000 hours min.@ 75% Load, 40°C
Altitude 5000m
Dimensions 2.000x2.000x1.01 inches (50.80x50.80x25.6 mm)
-E: 2.14x2.14x1.043 inches (54.37x54.37x26.5 mm)
-T: 2.70x2.00x0.941 inches (68.58x50.80x23.9 mm)
Weight 61g, 142g(-E), 64g(-T)

SAFETY AND EMISSION:

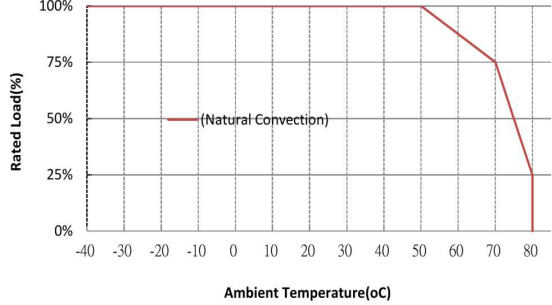
Emission and Immunity EN55032 Class B, FCC Part 15 Class B
EN61000-3-2, EN61000-3-3, EN61000-6-1, EN61000-6-2
EN61000-6-3, EN61000-6-4, EN55024, EN61204-3
Safety Class II, IEC/EN/UL62368-1

CFM41S Series De-rating Curve

CFM41SXXX、CFM41SXXX-E



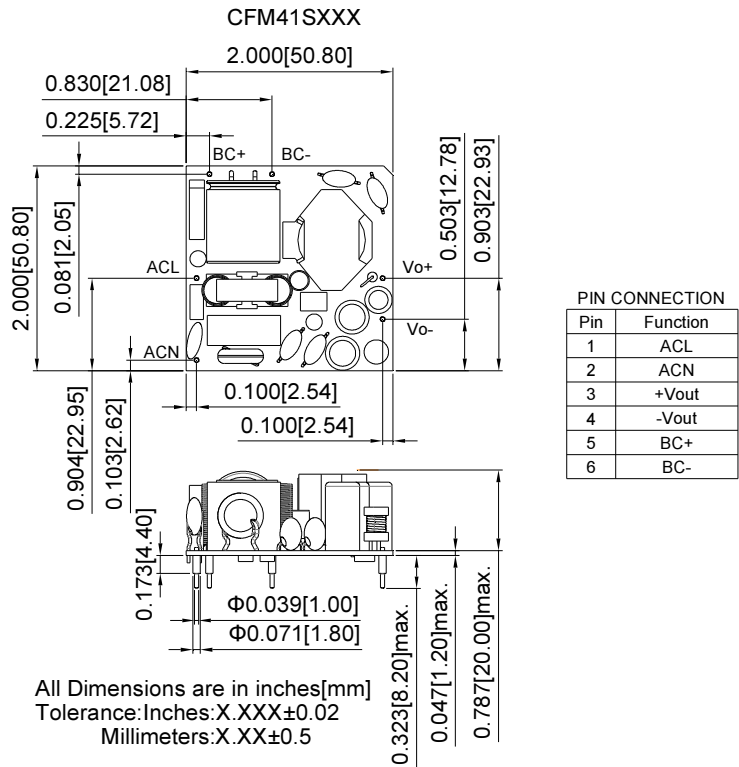
CFM41SXXX-T



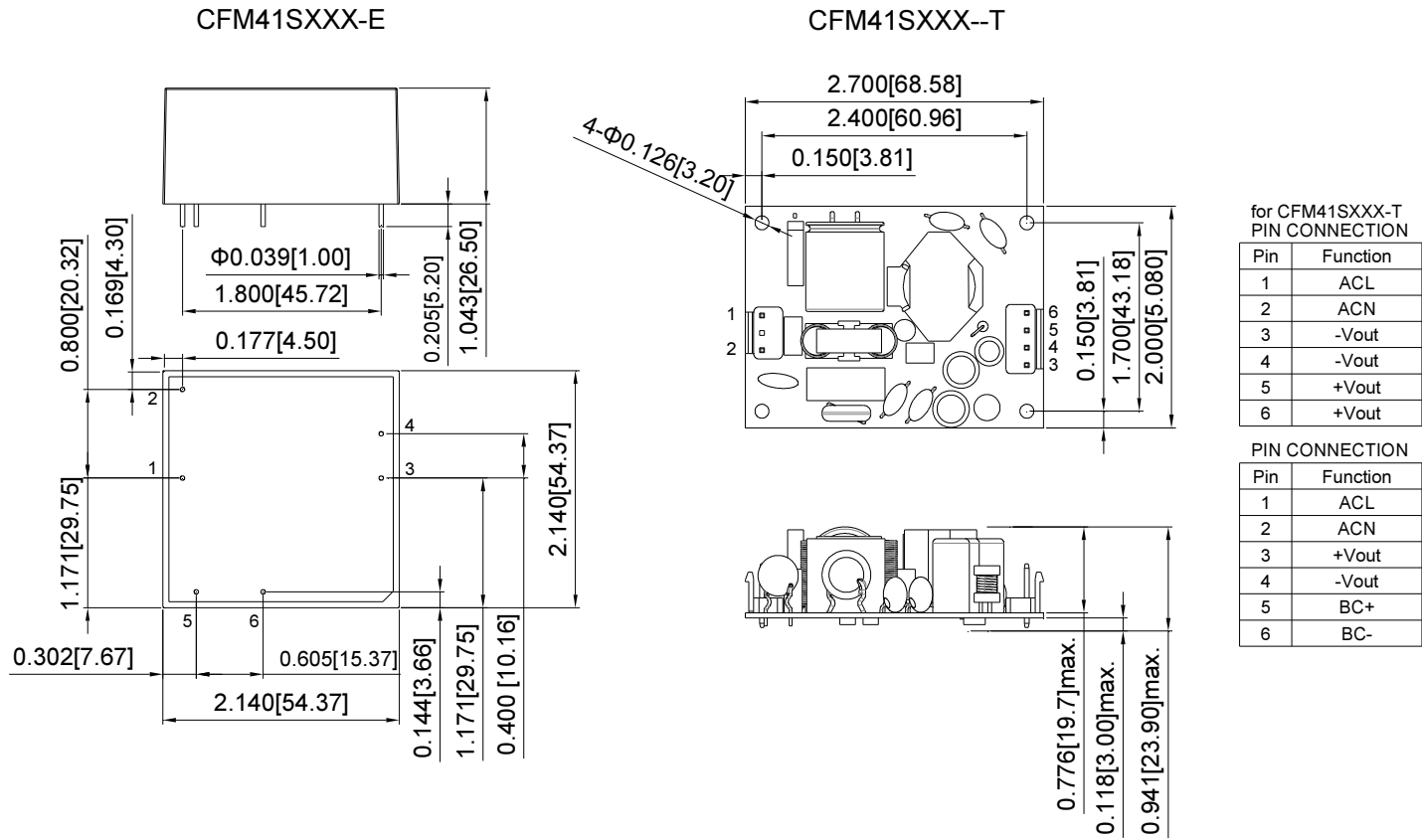
NOTE:

1. Voltage accuracy is set of 100% rated 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 high line to low line with full load
4. Load regulation is measured from 10% to 100% full load.
5. Typical efficiency at 230VAC and full load at 25°C
6. PL (peak load function) Lasting time < 10 seconds with a maximum 10% duty cycle and must add external 68uF / 400V capacitor to BC+ & BC-.
7. CFM41SXXX-T input and output connectors (CN1 and CN2) wafer with TAIWAN KING PIN TERMINAL PVHI series and mate with JST housing VHR series or equivalent.

Mechanical Specification



Mechanical Specification



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