



CFM41S SERIES

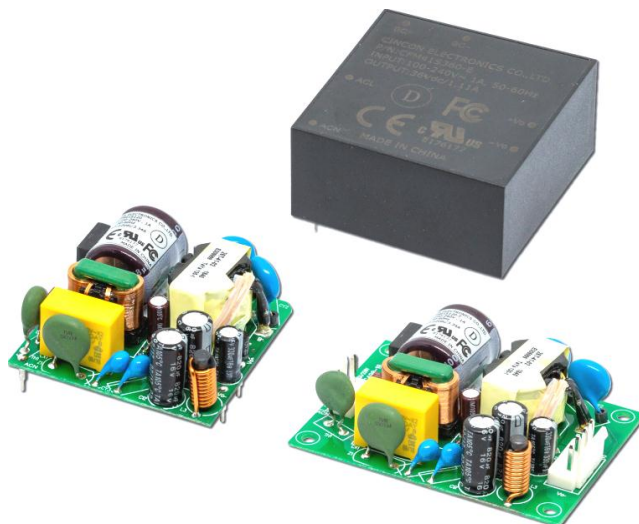
40 WATT SINGLE OUTPUT

AC-DC OPEN FRAME



Features

- * Universal Input 90~264VAC
- * EN55032 Class B and CISPR/FCC Class B
- * IEC/EN/UL62368-1
- * 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%

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

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	±0.05%/°C
Over Voltage Protection	TVS Component to Clamp
Startup time	115Vac<2s typ. 230Vac<1s typ.
Switching Frequency	65KHz Typical

GENERAL SPECIFICATIONS:

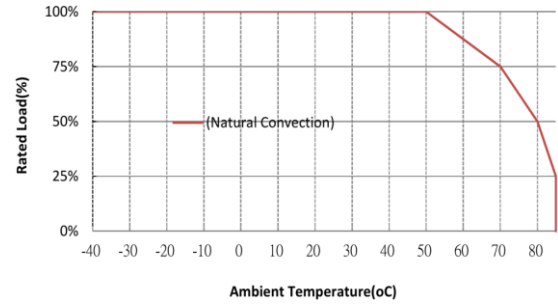
Isolation Voltage(Input to Output)	3000VAC
Operating Temperature	-40~85°C (See Derating Curve)
Storage Temperature	-40°C~85°C
Cooling	Natural Convection
Humidity	93%RH max. Non condensing
MTBF	MIL-HDBK-217F, GB, 25°C/115VAC 350Khrs min
Life time	26000 hours min.@ 75% Load, 40°C
Altitude	5000m
Dimensions	2.000x2.000x1.01 inches (50.80x50.80x25.6 mm) -E: 2.14x2.14x1.035 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:

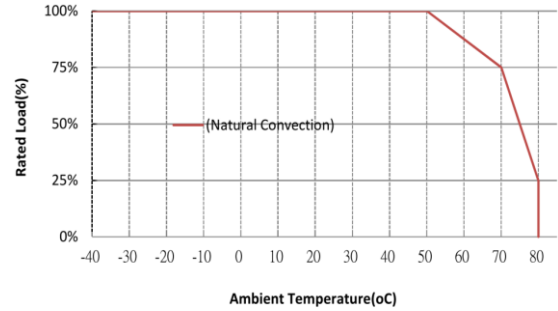
Emission and Immunity	EN55032 Class B, FCC Part 15 Class B EN61000-3-2, EN61000-3-3, EN61000-6-1, EN61000-6-2 EN61000-6-3, EN61000-6-4, EN55024, EN61204-3
Safety	Class II, IEC/EN/UL62368-1

CFM41S Series De-rating Curve

CFM41SXXX、CFM41SXXX-E



CFM41SXXX-T



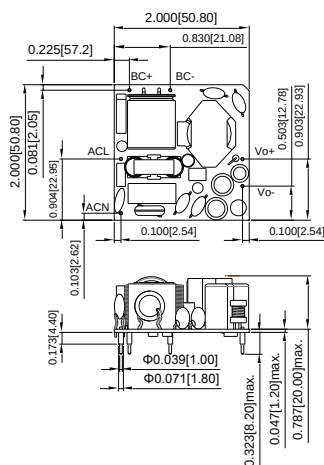
NOTE:

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 PVH1 series and mate with JST housing VHR series or equivalent.

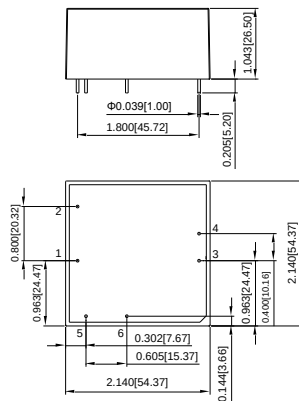
Mechanical Specification

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

CFM41SXXX



CFM41SXXX-E



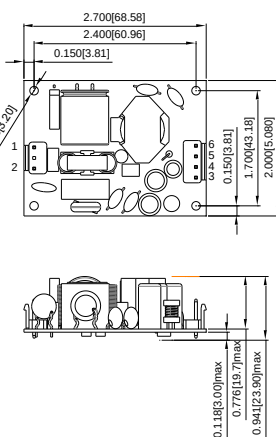
CFM41SXXX-T

for CFM41SXXX-T
PIN CONNECTION

Pin	Function
1	ACL
2	ACN
3	-Vout
4	-Vout
5	+Vout
6	+Vout

PIN CONNECTION

Pin	Function
1	ACL
2	ACN
3	+Vout
4	-Vout
5	BC+
6	BC-



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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Cincon:

[CFM41S050](#) [CFM41S050-E](#) [CFM41S050-T](#) [CFM41S120](#) [CFM41S120-E](#) [CFM41S120-T](#) [CFM41S360](#)
[CFM41S360-E](#) [CFM41S360-T](#) [CFM41S480](#) [CFM41S480-E](#) [CFM41S480-T](#) [CFM41S150](#) [CFM41S150-E](#)
[CFM41S150-T](#) [CFM41S240](#) [CFM41S240-E](#) [CFM41S240-T](#)