



CFM61S SERIES

60 WATT SINGLE OUTPUT

AC-DC OPEN FRAME



Features

- * Universal Input 90~264VAC
- * High Efficiency up to 90%
- * Meets EN55032 Class B and CIRSS/FCC Class B
- * Approved IEC62368-1, UL62368-1, EN62368-1
- * Continuous Short Circuit Protection
- * Over Voltage Protection
- * Peak Load (2 times of rated current (**note6**))
- * Class II

Ordering information

CFM61SXXX - **X** YZ (Optional)

Blank: PCB mount Blank

E: Encapsulated PL: PEAK LOAD FUNCTION

T: WAFER



MODEL	Output Voltage	Output Current	Ripple (mV p-p) NOTE 1	Voltage Accuracy NOTE 2	Line Regulation NOTE 3	Load Regulation NOTE 4	% EFF. (typ.) NOTE 5
CFM61S050	5 V	8 A	50mV	±2%	±1%	±1%	86%
CFM61S120	12 V	5 A	120mV	±1%	±1%	±1%	88%
CFM61S150	15 V	4 A	150mV	±1%	±1%	±1%	88%
CFM61S240	24 V	2.5 A	240mV	±1%	±1%	±1%	89%
CFM61S360	36 V	1.67 A	360mV	±1%	±1%	±1%	89%
CFM61S480	48 V	1.25 A	480mV	±1%	±1%	±1%	90%

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

CFM61S Series De-rating Curve

INPUT SPECIFICATIONS:

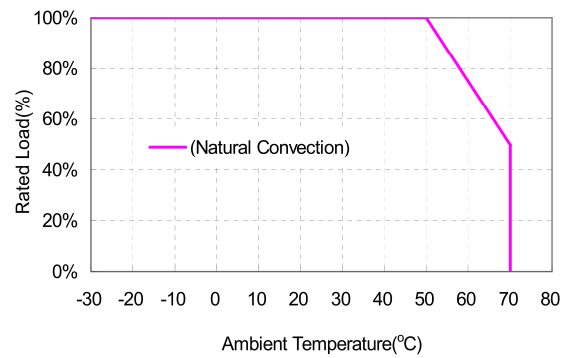
Voltage	90~264Vac
Frequency	47 to 63Hz
Inrush Current	120A max. @240Vac, Cold Start @25°C
Leakage Current	0.25mA max. @ 264Vac
Input Current	100Vac/1.5A max., 240Vac/0.8A max.

OUTPUT SPECIFICATIONS:

Holdup Time	10ms typ. @115Vac
Short Circuit Protection	Hiccup Mode (Auto Recovery)
Temperature Coefficient	$\pm 0.05\%/^{\circ}\text{C}$
Over Voltage Protection	TVS Component to Clamp
Startup time	<3.0s
Switching Frequency	65KHz Typical

GENERAL SPECIFICATIONS:

Isolation Voltage(Input to Output)	3000VAC
Operating Temperature.....	-30℃~70℃ (Derating from 50℃ to 70℃)
Storage Temperature	-30℃~85℃
Cooling	Natural Convection
Humidity	93%RH max. Non condensing
Isolation Voltage (Input to Output)	3000VAC
MTBF	MIL-HDBK-217F, GB, 25℃/115VAC 300Khrs min.
Life time.....	26000 hours min.@ 75% load, 40℃
Altitude	5000m
Dimensions	2.000x2.000x1.346 inches (50.80x50.80x34.20 mm)
	-E: 2.136x2.136x1.409 inches (54.25x54.25x35.80 mm)
	-T: 2.700x2.000x1.291 inches (68.58x50.80x32.80 mm)
Weight	93g, 96g(-T), 190g(-E)



SAFETY AND EMISSION:

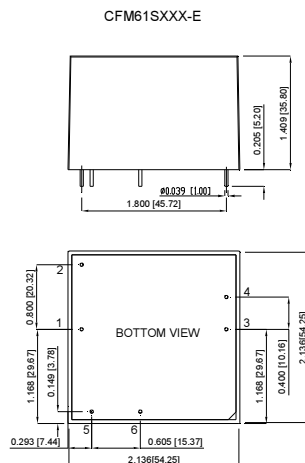
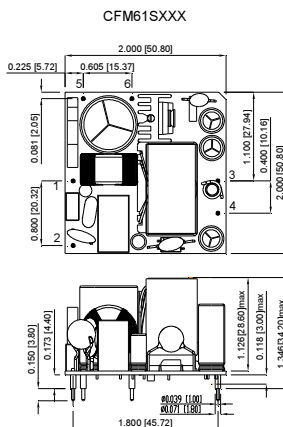
Emission and Immunity	EN55032 Class B, FCC Part 15 Class B EN61000-3-2, EN61000-3-3, EN61000-6-3, EN61000-6-4
Immunity	EN55024, EN61204-3, EN61000-6-1, EN61000-6-2
Safety	IEC62368-1, UL62368-1

NOTE:

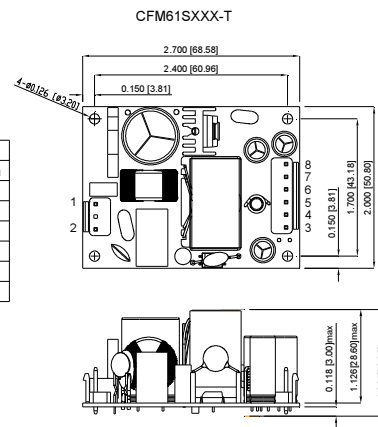
1. Voltage accuracy is set of 100% rated load.
2. Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to output for ripple&noise measuring @20MHz BW. (CFM61S050: Add a 0.1uF ceramic capacitor and 47uF E.L. capacitor.)
3. Line regulation is measured from high line to low line with full load.
4. Load regulation is measured from 10% to 100% full load.
5. T Version wafer with JST B3B-XH / B4B-XH and mate with JST housing XH series or equivalent.
6. PL(Peak load function) Lasting time < 10 seconds with a maximum 10% duty cycle And must add external 100uF / 400V capacitor to BC+ & BC-

Mechanical Specification

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



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



PIN CONNECTION	
Pin	Function
1	ACL
2	ACN
3	-Vout
4	-Vout
5	-Vout
6	+Vout
7	+Vout
8	+Vout

Mouser Electronics

Authorized Distributor

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

Cincon:

[CFM61S240PL](#) [CFM61S050-T](#) [CFM61S150PL](#) [CFM61S480-T](#) [CFM61S120](#) [CFM61S150-E PL](#) [CFM61S120-T](#)
[CFM61S480](#) [CFM61S480-E PL](#) [CFM61S120-E PL](#) [CFM61S120PL](#) [CFM61S150-E](#) [CFM61S360](#) [CFM61S360-E PL](#)
[CFM61S050-E](#) [CFM61S240](#) [CFM61S240-E](#) [CFM61S240-T](#) [CFM61S050](#) [CFM61S050-E PL](#) [CFM61S240-E PL](#)
[CFM61S050PL](#) [CFM61S360-E](#) [CFM61S120-E](#) [CFM61S150-T](#) [CFM61S360PL](#) [CFM61S480PL](#) [CFM61S150](#)
[CFM61S360-T](#) [CFM61S480-E](#)