



CFM25S SERIES

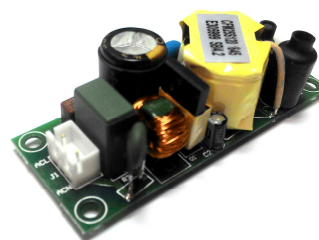
25 WATT SINGLE OUTPUT

AC-DC OPEN FRAME



Features

- * Universal Input 90~264VAC
- * High Efficiency up to 87%
- * Meets EN55032 Class B and CIRSS/FCC Class B
- * Meets IEC62368-1, UL62368-1, IEC/EN60335-1 IEC61558-1
- * Safety Approved IEC60950-1, UL60950-1, EN60950-1
- * Continuous Short Circuit Protection
- * Over Voltage Protection
- * Peak Load (2 Times of Rated Current (**note7**))
- * No Load Input Power<0.1W
- * Class II



Ordering information

CFM25SXXX -	X	YZ (Optional)
	Blank: PCB mount	Blank
	E: Encapsulated	PL: Peak Load Function
	T: WAFER	with Pin5 (BC+), Pin6(BC-)

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
CFM25S050	5V	4.0A	50mV	±2%	±1%	±1%	81%
CFM25S120	12V	2.1A	120mV	±1%	±1%	±1%	84%
CFM25S150	15V	1.67A	150mV	±1%	±1%	±1%	85%
CFM25S240	24V	1.05A	240mV	±1%	±1%	±1%	86%
CFM25S360	36V	0.7A	360mV	±1%	±1%	±1%	87%
CFM25S480	48V	0.52A	480mV	±1%	±1%	±1%	87%

Specifications

INPUT SPECIFICATIONS:

Voltage	90~264Vac
Frequency	47 to 63Hz
Inrush Current	60A max. @240Vac, Cold Start @25°C
Leakage Current	0.25mA max. @ 264Vac
Input Current	0.7A max.

OUTPUT SPECIFICATIONS:

Holdup Time	8ms typ. @115Vac
Short Circuit Protection	Hiccup Mode (Auto Recovery)
Temperature Coefficient	±0.05%/°C
Over Voltage Protection	TVS Component to Clamp
Startup time	<3.0s

GENERAL SPECIFICATIONS:

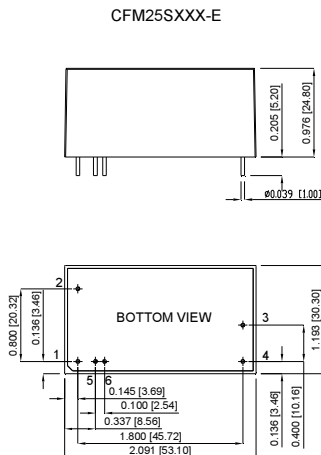
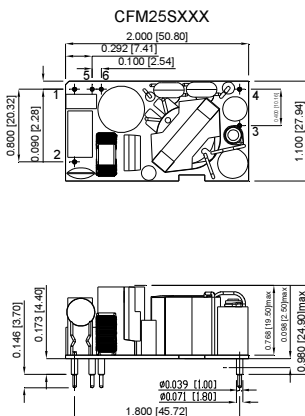
Isolation Voltage(Input to Output)	3000VAC
Operating Temperature	-30°C~70°C (Derating from 50°C to 70°C)
Storage Temperature	-30°C~85°C
Cooling	Natural Convection
Humidity	93%RH max. Non condensing
Switching Frequency	65KHz typical
MTBF	MIL-HDBK-217F, GB, 25°C/115VAC 500Khrs min.
Life time	26000 hours min.@ 75% Load, 40°C
Altitude	5000m(UL60950-1), 3000m(IEC61558-1)
Dimensions	2.000x1.100x0.980Inches(50.80x27.94x24.90mm) -E: 2.091x1.193x0.976Inches (53.10x30.30x24.80mm) -T: 2.776x1.100x0.906 Inches (70.50x27.94x23.00 mm)
Weight	50g, 105g(-E), 55g(-T)

SAFETY AND EMISSION:

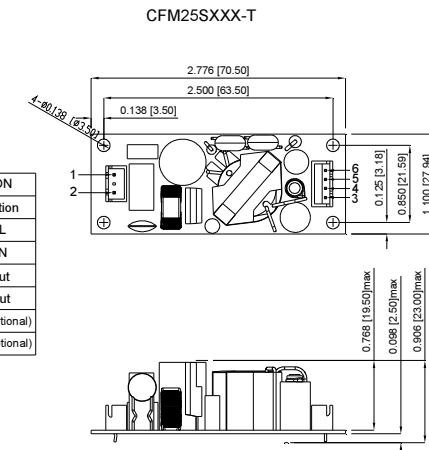
Emission and Immunity	EN55032 Class B, FCC Part 15 Class B EN61000-6-3, EN61000-6-4, EN61000-3-2, EN6100-3-3
Immunity	EN55024, EN61204-3, EN61000-6-1, EN61000-6-2
Safety	IEC60950-1, UL60950-1, EN60950-1

Mechanical Specification

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



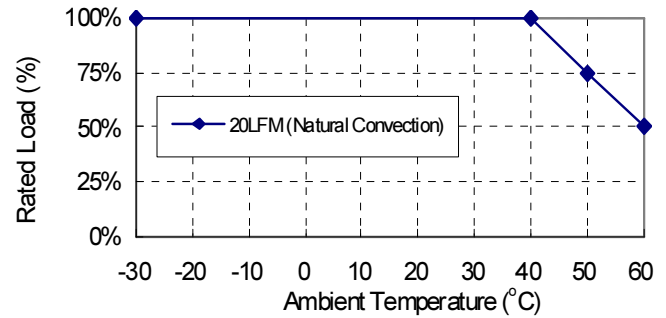
PIN CONNECTION	
PIN	Function
1	ACL
2	ACN
3	+Vout
4	-Vout
5	BC+ (Optional)
6	BC- (Optional)



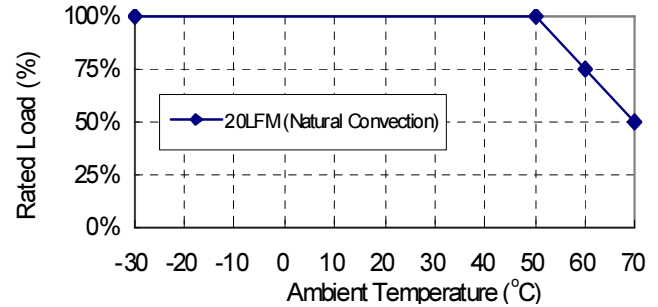
PIN CONNECTION	
PIN	Function
1	ACL
2	ACN
3	+Vout
4	+Vout
5	-Vout
6	-Vout

CFM25S Series De-rating Curve

CFM25S050, CFM25S050-T



CFM25S120(-T), CFM25S150(-T), CFM25S240(-T) CFM25S360(-T), CFM25S480(-T), CFM25SXXX-E



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 100% rated load and 25°C Ta.
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. T Version wafer with JST B3B-XH / B4B-XH and mate with JST housing. XH series or equivalent.
7. PL(peak load function) lasting time <10 seconds with a maximum 10% duty cycle and must add external 33uF/400V capacitor to BC+ & BC-

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

Mouser Electronics

Authorized Distributor

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Cincon:

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[CFM25S120-PL](#) [CFM25S050-EPL](#) [CFM25S150](#) [CFM25S360](#) [CFM25S480](#) [CFM25S360-EPL](#) [CFM25S050-T](#)
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[EPL](#) [CFM25S480-E](#) [CFM25S050](#) [CFM25S360-PL](#) [CFM25S360-E](#) [CFM25S240-E](#) [CFM25S150-PL](#) [CFM25S120-E](#)
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