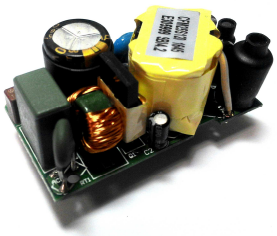
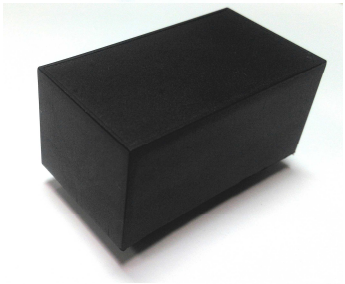
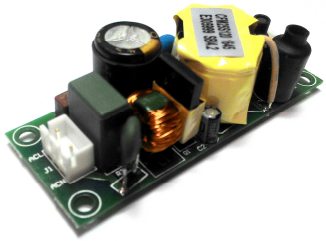
CFM25S SERIES

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%

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

Specifications

INPUT SPECIFICATIONS:

Voltage ..... 90~264Vac
Frequency ..... 47 to 63Hz
Inrush Current ..... 60A max. @240Vac, Cold Start @25℃
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%/℃
Over Voltage Protection ..... TVS Component to Clamp
Startup time ..... <3.0s

GENERAL SPECIFICATIONS:

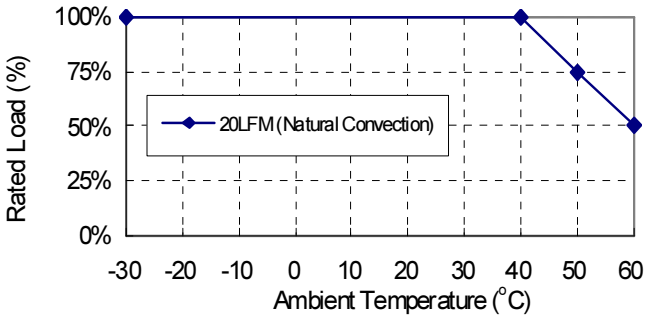
Isolation Voltage(Input to Output) 3000VAC
Operating Temperature ..... -30℃~70℃ (Derating from 50℃ to 70℃)
Storage Temperature ..... -30℃~85℃
Cooling ..... Natural Convection
Humidity ..... 93%RH max. Non condensing
Switching Frequency ..... 65KHz typical
MTBF ..... MIL-HDBK-217F, GB, 25℃/115VAC ..... 500Khrs min.
Life time..... ..... .26000 hours min.@ 75% Load, 40℃
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:

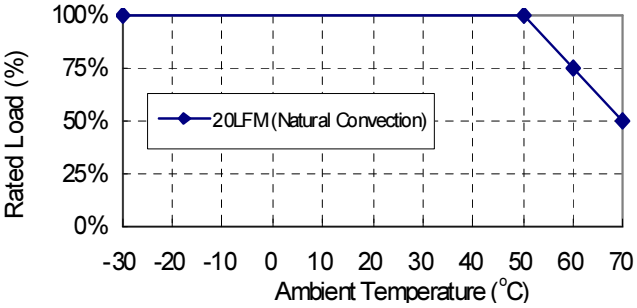
Emission and Immunity ..... EN55032 Class B, FCC Part 15 Class B
EN61000-6-3, EN61000-6-4, EN61000-3-2, EN6100-3-3
Immunity EN55024, EN61204-3, EN61000-6-1, EN61000-6-2
Safety IEC60950-1, UL60950-1, EN60950-1

CFM25S Series De-rating Curve

CFM25S050, CFM25S050-T



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



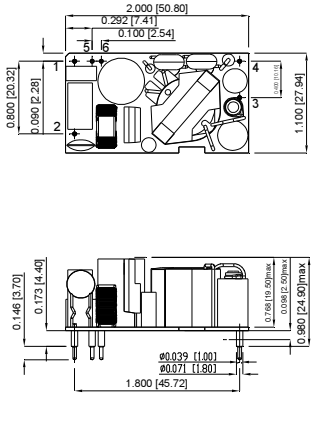
NOTE:

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℃ 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℃.
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-

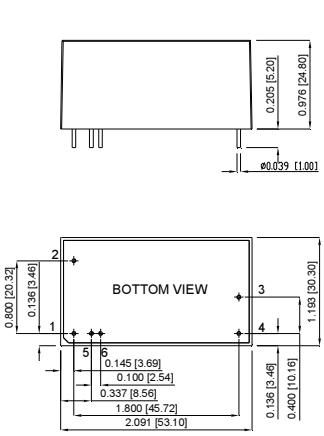
Mechanical Specification

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

CFM25SXXX

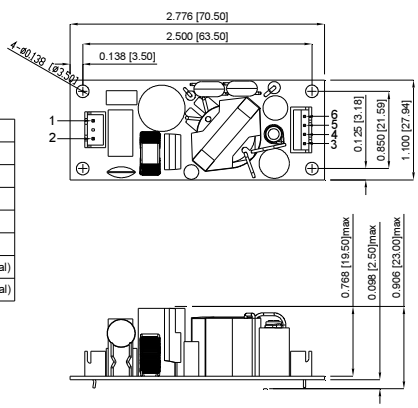


CFM25SXXX-E



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

CFM25SXXX-T



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

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