CFM06S SERIES

6 WATT SINGLE OUTPUT AC-DC OPEN FRAME

Features

* Universal Input 90~264VAC
* High Efficiency up to 81%
* Approved EN55032 Class B and CIRSS/FCC Class B
* Approved IEC62368-1, UL62368-1, EN62368-1
* Meets EN61558 (60335)
* Continuous Short Circuit Protection
* No load input power < 75mW
* Over Voltage Protection
* Class II

Ordering information

CFM06SXXX - X

Blank: PCB mount

E: Encapsulated

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
CFM06S033	3.3V	1.5A	100mV	±6%	±1%	±6%	73%
CFM06S050	5V	1.2A	100mV	±5%	±1%	±5%	78%
CFM06S090	9V	0.67A	100mV	±5%	±1%	±5%	80%
CFM06S120	12V	0.5A	120mV	±3%	±1%	±3%	81%
CFM06S150	15V	0.4A	150mV	±3%	±1%	±3%	81%
CFM06S240	24V	0.25A	240mV	±3%	±1%	±3%	81%

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

Specifications

INPUT SPECIFICATIONS:

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

OUTPUT SPECIFICATIONS:

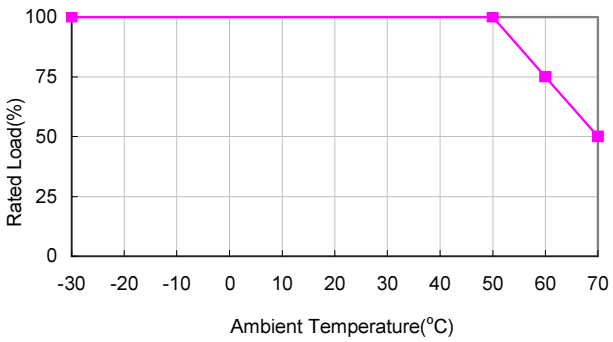
Holdup Time ..... 12ms typ. @115Vac
Short Circuit Protection .....Hiccup Mode (Auto Recovery)
Temperature Coefficient ..... ±0.05% / ℃

GENERAL SPECIFICATIONS:

Isolation Voltage(Input to Output) 3000VAC:
Operating Temperature..... -30℃~70℃ (Derating from 50℃ to 70℃)
Storage Temperature ..... -40℃~85℃
Cooling ..... Natural Convection
Humidity ..... 93% RH max. Non condensing
Switching Frequency ..... 30~70KHz Typical
MTBF ..... MIL-HDBK-217F, GB, 25℃/115VAC ..... 610Khrs min.
Life Time ..... .56000 hours min.@ 75% load, 40℃
Altitude 5000m
Dimensions ..... 1.555x0.764x0.720 Inches (39.50x19.40x18.30mm)
-E: 1.618x0.827x0.787 Inches (41.10x21.00x20.00mm)
-T: 1.950.x0.709x0.689 Inches (49.53x18.00x17.50mm)
Weight ..... 11g, (-E): 30g, (-T): 12g

CFM06S Series De-rating Curve

Derating curve:



SAFETY AND EMISSION:

Emission and Immunity..... EN55032 Class B, EN55024, EN61204-3
EN61000-3-2, -3, EN61000-6-1, 2, 3, 4
47 CFR FCC Part 15 Subpart B (Class B)
Safety IEC62368-1, UL62368-1, EN62368-1, IEC60950-1

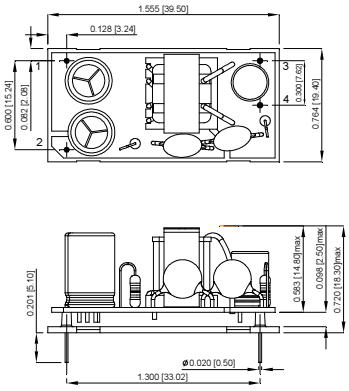
NOTE:

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.
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..

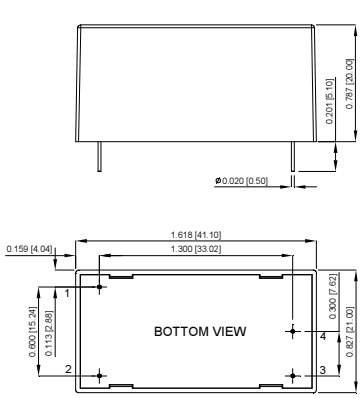
Mechanical Specification

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

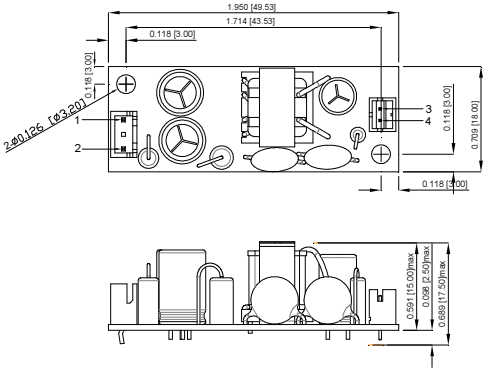
CFM60SXXX



CFM60SXXX-E



CFM60SXXX-T



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

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