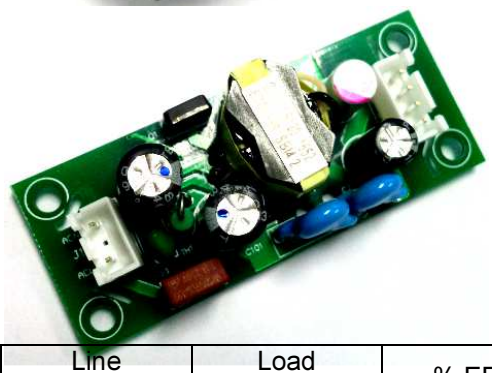
CFM12S SERIES

12 WATT SINGLE OUTPUT AC-DC OPEN FRAME



Features

* Universal Input 90~264VAC
* High Efficiency up to 84%
* Meets EN55032 Class B and CIRSS/FCC Class B
* Approved IEC62368-1, UL62368-1
* Meets EN60335-1
* Continuous Short Circuit Protection
* Over Voltage Protection
* No load input power < 75mW
* Class II

Ordering information

CFM12SXXX - X

Blank: PCB mount

E: Encapsulated

T: WAFER

MODEL	Output Voltage	Output Current	Ripple (mV p-p) NOTE 1	Voltage Accuracy NOTE2	Line Regulation NOTE3	Load Regulation NOTE4	% EFF. (typ.)
CFM12S050	5V	2A	100mV	±2%	±1%	±1%	79%
CFM12S090	9V	1.34A	100mV	±2%	±1%	±1%	83.26%
CFM12S120	12V	1.0A	120mV	±2%	±1%	±1%	83.26%
CFM12S150	15V	0.8A	150mV	±2%	±1%	±1%	83.26%
CFM12S240	24V	0.5A	240mV	±2%	±1%	±1%	83.26%

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

Specifications

INPUT SPECIFICATIONS:

Voltage ..... 90~264Vac
Frequency ..... 47 to 63Hz
Inrush Current ..... 50A max. @240Vac, Cold Start @25℃
Leakage Current ..... 0.25mA max. @ 264Vac
Input Current ..... 0.4A max.

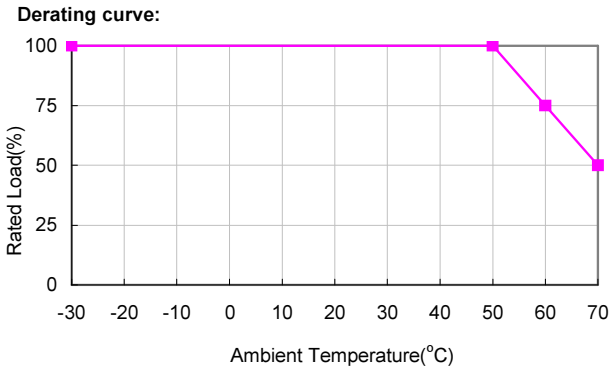
OUTPUT SPECIFICATIONS:

Holdup Time ..... 10ms typ. @115Vac
Short Circuit Protection .....Hiccup Mode (Auto Recovery)
Temperature Coefficient ..... ±0.05% / ℃
Over Voltage Protection ....Hiccup Mode(Auto Recovery)
Startup time .....<3.0s

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 ..... 65KHz Typical
MTBF ..... MIL-HDBK-217F, GB, 25℃/115VAC ..... 450Khrs min.
Altitude 5000m
Dimensions 1.500x1.000x0.764nches (38.10x25.40x19.40mm)
-E: 1.600x1.1x0.772 Inches (40.64x27.94x19.60 mm)
-T: 2.150x1.000x0.681 Inches (63.50x25.40x17.30 mm)
Weight ..... 16g, (-E): 40g, (-T): 17g

CFM12S Series De-rating Curve



SAFETY AND EMISSION:

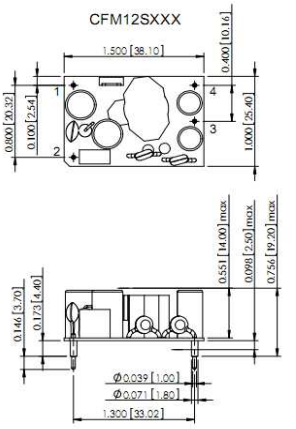
Emission and Immunity..... EN55032 Class B, EN55024, EN61204-3,
EN61000-3-2, EN6100-3-3,
EN61000-6-1, EN61000-6-3.
47 CFR FCC Part 15 Subpart B (Class B)
Safety IEC62368-1,UL62368-1,IEC60950-1,UL60950-1

NOTE:

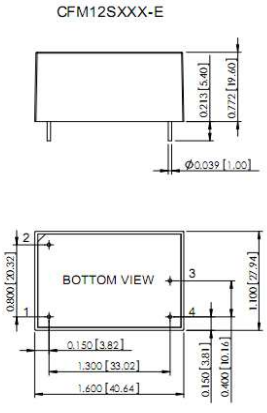
1. Voltage accuracy is set of 100% rated load.
2. Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to output for ripple&noise measuring @20MHz BW.
3. Line regulation is measured from high line to low line with full load.
4. Load regulation is measured from 10% to 100% full load.
5. T Version wafer with JST B3B-XH / B4B-XH and mate with JST housing XH series or equivalent..

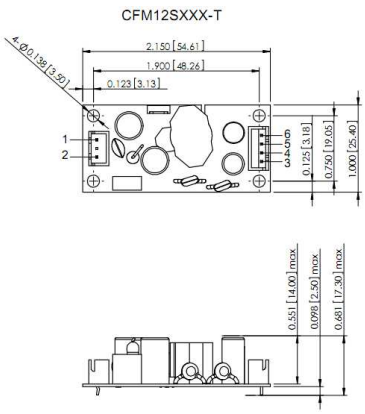
Mechanical Specification

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



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





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

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