



CFM12S SERIES

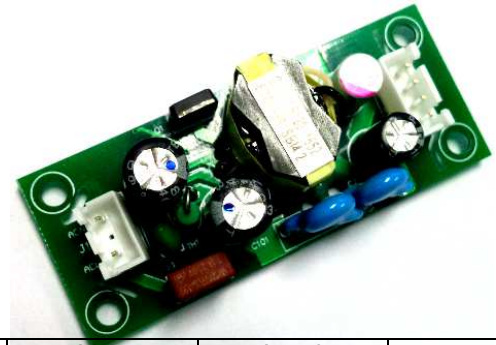
12 WATT SINGLE OUTPUT

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 NOTE 2	Line Regulation NOTE 3	Load Regulation NOTE 4	% 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°C
 Leakage Current 0.25mA max. @ 264Vac
 Input Current 0.4A max.

OUTPUT SPECIFICATIONS:

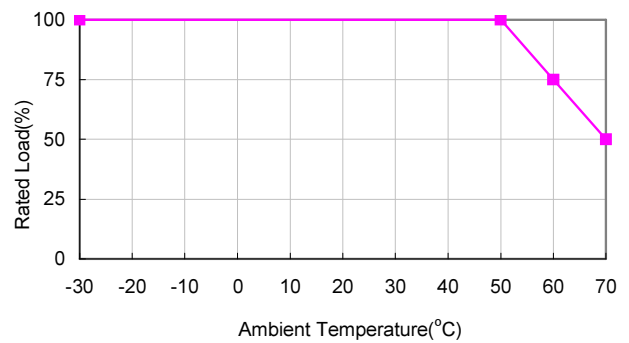
Holdup Time 10ms typ. @115Vac
 Short Circuit Protection Hiccup Mode (Auto Recovery)
 Temperature Coefficient $\pm 0.05\%$ / °C
 Over Voltage Protection Hiccup Mode (Auto Recovery)
 Startup time <3.0s

GENERAL SPECIFICATIONS:

Isolation Voltage(Input to Output) 3000VAC:
 Operating Temperature..... -30°C~70°C (Derating from 50°C to 70°C)
 Storage Temperature -40°C~85°C
 Cooling Natural Convection
 Humidity 93% RH max. Non condensing
 Switching Frequency 65KHz Typical
 MTBF MIL-HDBK-217F, GB, 25°C/115VAC 450Khrs min.
 Altitude 5000m
 Dimensions 1.500x1.000x0.764inches (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

Derating curve:



SAFETY AND EMISSION:

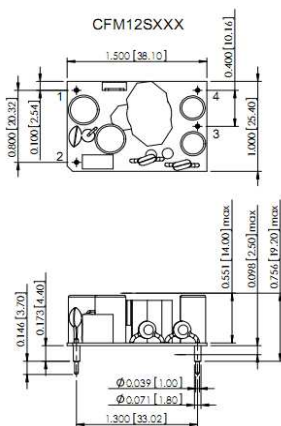
Emission and Immunity..... EN55032 Class B, EN55024, EN61204-3,
 EN61000-3-2, EN6100-3-3,
 EN61000-6-1, EN61000-6-3.
 47 CFR FCC Part 15 Subpart B (Class B)
 Safety IEC62368-1, UL62368-1, IEC60950-1, UL60950-1

NOTE:

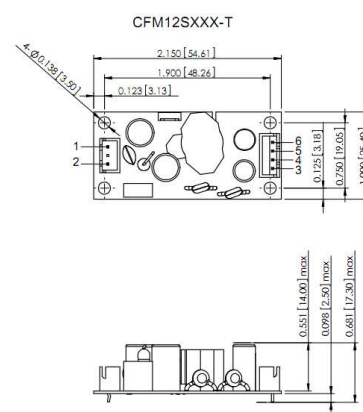
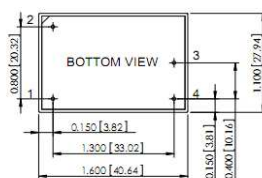
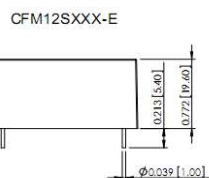
1. Voltage accuracy is set of 100% rated load.
2. Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to output for ripple&noise measuring @20MHz BW.
3. Line regulation is measured from high line to low line with full load.
4. Load regulation is measured from 10% to 100% full load.
5. T Version wafer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

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

Mouser Electronics

Authorized Distributor

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Cincon:

[CFM12S050-E](#) [CFM12S240](#) [CFM12S090-E](#) [CFM12S050](#) [CFM12S150-T](#) [CFM12S150-E](#) [CFM12S120](#)
[CFM12S120-T](#) [CFM12S090](#) [CFM12S240-T](#) [CFM12S050-T](#) [CFM12S240-E](#) [CFM12S090-T](#) [CFM12S120-E](#)
[CFM12S150](#)