



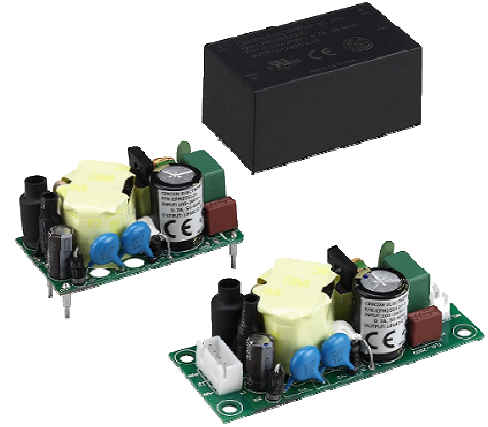
CFM25S SERIES

25 WATT SINGLE OUTPUT AC-DC OPEN FRAME



Features

- * Universal Input 90~264VAC
- * High Efficiency up to 87%
- * Meets EN55032 Class B and CISRP/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°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:

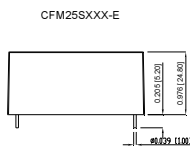
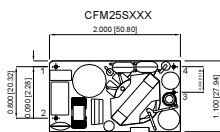
Isolation Voltage(Input to Output) 3000VAC
 Operating Temperature -30°C~70°C (Derating from 50°C to 70°C)
 Storage Temperature -30°C~85°C
 Cooling Natural Convection
 Humidity 93%RH max. Non condensing
 Switching Frequency 65KHz typical
 MTBF MIL-HDBK-217F, GB, 25°C/115VAC 500Khrs min.
 Life time.....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

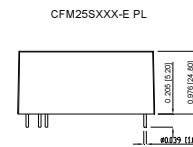
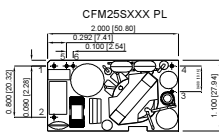
Emission and Immunity EN55032 Class B, FCC Part 15 Class B
 EN61000-6-3, EN61000-6-4, EN61000-3-2, EN6100-3-3
 Immunity EN55024, EN61204-3, EN61000-6-1, EN61000-6-2
 Safety IEC60950-1, UL60950-1, EN60950-1

Mechanical Specification

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

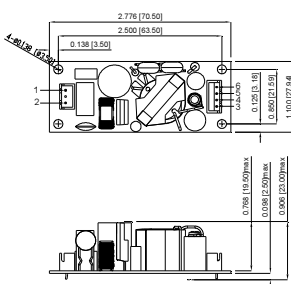


| PIN CONNECTION | |
|----------------|----------|
| PIN | Function |
| 1 | ACL |
| 2 | ACN |
| 3 | +Vout |
| 4 | -Vout |



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

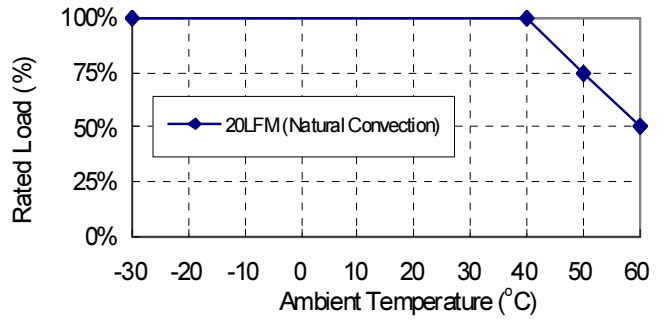
CFM25SXXX-T



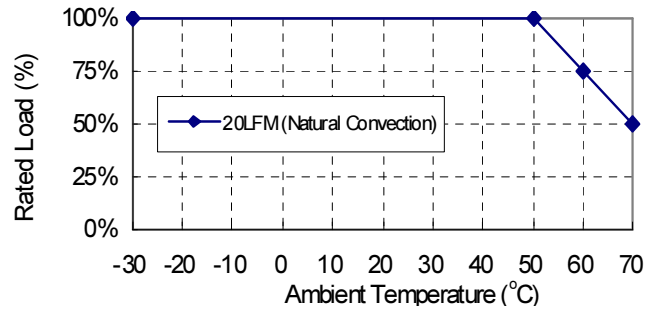
| PIN CONNECTION | |
|----------------|----------|
| PIN | Function |
| 1 | ACL |
| 2 | ACN |
| 3 | +Vout |
| 4 | +Vout |
| 5 | -Vout |
| 6 | -Vout |

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