



# CFM06S SERIES

## 6 WATT SINGLE OUTPUT AC-DC OPEN FRAME



### Features

- \* Universal Input 90~264VAC
- \* High Efficiency up to 83%
- \* Approved EN55032 Class B and CISPR/FCC Class B
- \* Approved IEC/EN/UL 62368-1
- \* Meets IEC/EN60335-1
- \* Continuous Short Circuit Protection
- \* No Load Input Power < 75mW
- \* Over Voltage Protection
- \* Constant Current (Optional)
- \* Class II



### Ordering information

CFM06SXXX - X

Blank: PCB mount

E: Encapsulated

T: WAFER

| MODEL     | Output Voltage | Output Current | Ripple (mV p-p)<br>NOTE 1 | Voltage Accuracy<br>NOTE 2 | Line Regulation<br>NOTE 3 | Load Regulation<br>NOTE 4 | % EFF. (typ.)<br>NOTE 5 |
|-----------|----------------|----------------|---------------------------|----------------------------|---------------------------|---------------------------|-------------------------|
| CFM06S033 | 3.3V           | 1.5A           | 100mV                     | ±6%                        | ±1%                       | ±6%                       | 75%                     |
| CFM06S050 | 5V             | 1.2A           | 100mV                     | ±5%                        | ±1%                       | ±5%                       | 78%                     |
| CFM06S090 | 9V             | 0.67A          | 100mV                     | ±5%                        | ±1%                       | ±5%                       | 81%                     |
| 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%                       | 83%                     |

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

|     |        |
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## Specifications

### INPUT SPECIFICATIONS:

|                 |                                    |
|-----------------|------------------------------------|
| Voltage         | 90~264Vac<br>120~370Vdc            |
| Frequency       | 47 to 63Hz                         |
| Inrush Current  | 90A max. @240Vac. Cold Start @25°C |
| Leakage Current | 0.25mA max. @ 264Vac               |
| Input Current   | 0.25A max.                         |

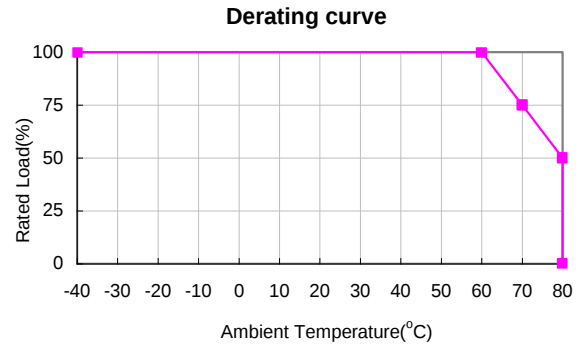
### OUTPUT SPECIFICATIONS:

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

### GENERAL SPECIFICATIONS:

|                                    |                                                                                                                                                           |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Isolation Voltage(Input to Output) | 3000VAC:                                                                                                                                                  |
| Operating Temperature              | -40°C~80°C (Derating from 60°C to 80°C)                                                                                                                   |
| Storage Temperature                | -40°C~85°C                                                                                                                                                |
| Cooling                            | Natural Convection                                                                                                                                        |
| Humidity                           | 93% RH max. Non Condensing                                                                                                                                |
| Switching Frequency                | 30~70KHz Typical                                                                                                                                          |
| MTBF                               | MIL-HDBK-217F, GB, 25°C/115VAC ..... 1120Khrs max.                                                                                                        |
| Life Time                          | .56000 hours min.@ 75% load, 40°C                                                                                                                         |
| Altitude                           | 5000m                                                                                                                                                     |
| Dimensions                         | 1.555x0.764x0.720 Inches (39.50x19.40x18.30mm)<br>-E: 1.618x0.827x0.787 Inches (41.10x21.00x20.00mm)<br>-T: 1.950x0.728x0.689 Inches (49.53x18.50x17.5mm) |
| Weight                             | 11g, (-E): 30g, (-T): 12g                                                                                                                                 |

## CFM06S Series De-rating Curve



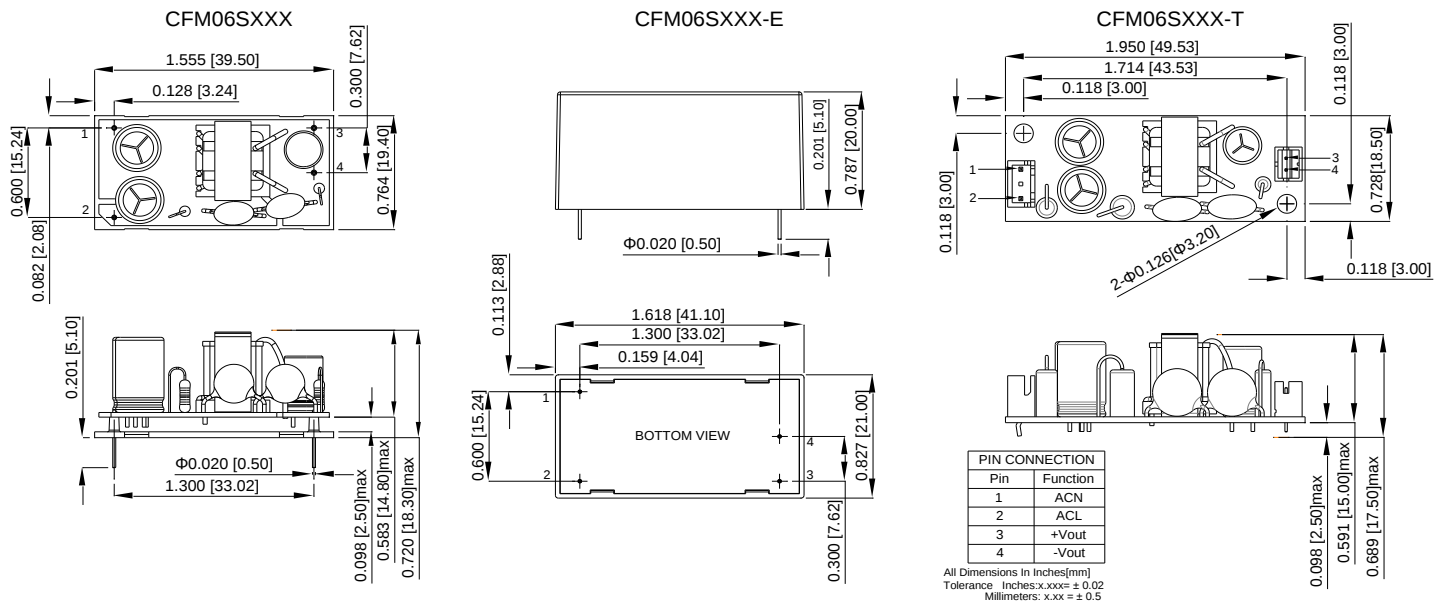
### SAFETY AND EMISSION:

|                       |                                                                                                                        |
|-----------------------|------------------------------------------------------------------------------------------------------------------------|
| Emission and Immunity | EN55032 Class B, EN55024, EN61204-3<br>EN61000-3-2, -3, EN61000-6-1, 2, 3, 4<br>47 CFR FCC Part 15 Subpart B (Class B) |
| Safety                | IEC/EN/UL 62368-1, IEC60950-1                                                                                          |

### 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 of 100% rated load.
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-PH/B2B-PH and mate with JST housing PH series or equivalent.

## Mechanical Specification



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

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