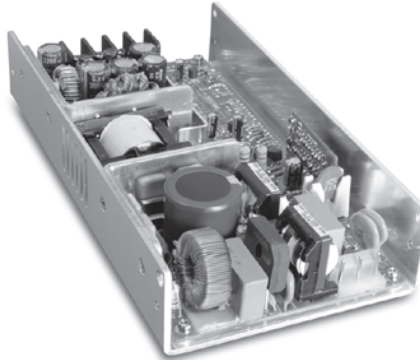




150W Power Factor Corrected Switchers

PSF-151 Low Profile Single and Dual Outputs



Features

- 2nd Generation Design
- 3.3/5 Volts Available
- Power Factor Correction
- Dedicated Fan Output
- Through Channel Air Flow

Applications

- Networking
- Compact Equipment
- Process Control
- Industrial Microcomputers

Safety Approvals Pending

- cUL 1950, 3rd Edition
- CE (Low Voltage Directive)
- TUV EN60950

Mechanical Characteristics

- Dimensions:
- Length: 203mm (8in)
 - Width: 106.7mm (4.2in)
 - Height: 38mm (1.5in)
 - Weight: 0.88Kg (2lb)

Output Specifications

| Model PFC Version | DC Outputs Voltage | Load | | | Ripple ⁽¹⁾ P-P | Regulation | | Max Power | |
|----------------------|-----------------------|------|-------|-------|------------------------------|------------|------|---------------------|---------------------|
| | | Min. | Conv. | 30CFM | | Line | Load | Conv. | 30CFM |
| PSF151-033C | 3.3V | 0A | 20A | 30A | 50mV | ±0.5% | ±5% | 66W | 99W |
| PSF151-050C | 5V | 0A | 20A | 30A | 50mV | ±0.5% | ±5% | 100W | 150W |
| PSF151-120C | 12V | 0A | 8.2A | 12.5A | 120mV | ±0.5% | ±3% | 100W | 150W |
| PSF151-150C | 15V | 0A | 6.6A | 10A | 150mV | ±0.5% | ±3% | 100W | 150W |
| PSF151-240C | 24V | 0A | 4A | 6A | 240mV | ±0.5% | ±3% | 100W | 150W |
| PSF151-480C | 48V | 0A | 2A | 3.1A | 480mV | ±0.5% | ±3% | 100W | 150W |
| PSF151-201C | 5V | 2A | 20A | 30A | 50mV | ±0.5% | ±3% | 100W ⁽²⁾ | 150W ⁽²⁾ |
| | 12V | 0A | 4.6A | 7A | 120mV | ±0.5% | ±3% | | |
| PSF151-203C | 5V | 2A | 20A | 30A | 50mV | ±0.5% | ±3% | 100W ⁽²⁾ | 150W ⁽²⁾ |
| | 3.3V | 0A | 6.6A | 10A | 50mV | ±0.5% | ±3% | | |
| PSF151-211C | 3.3V | 2A | 20A | 30A | 50mV | ±0.5% | ±3% | 100W ⁽²⁾ | 150W ⁽²⁾ |
| | 12V | 0A | 4.6A | 7A | 120mV | ±0.5% | ±3% | | |
| PSF151-213C | 3.3V | 2A | 20A | 30A | 50mV | ±0.5% | ±3% | 100W ⁽²⁾ | 150W ⁽²⁾ |
| | 5V | 0A | 6.6A | 10A | 50mV | ±0.5% | ±3% | | |
| Fan(All Models) | 12V | 0A | 0.5A | 1A | 120mV | ±1% | ±3% | 6W | 12W |

(1) Measured at full load by using a 12in. twisted pair terminated with a 10mfd capacitor and a 0.1mfd ceramic in parallel.

(2) Combined power of both outputs must not exceed maximum rating.

INPUT:

AC Input Voltage

90-264VAC

AC Input Frequency

47 to 63Hz

AC Input Current

4Arms (120VAC)

2Arms (230VAC)

AC Inrush Current (Cold Start)

35A max., at 120VAC

70A max., at 240VAC

AC Power Factor

EN 61000-3-2

Efficiency

80% Typical

OUTPUT:

Hold-up Time

12msec. typical, 120VAC

(10msec. for PSF151-050C)

Overshoot on Turn-On

<5%

Overvoltage Protection

>120% of Normal

on Main Output

Overcurrent Protection

Auto restart

Short Circuit

ENVIRONMENTAL:

Operation Temperature (Convection)

0 to 50°C Derated to 70°C

Storage Temperature

-20°C to +85°C

Humidity

10 to 90% RH (Non-condensing)

Emissions

FCC Class B

EN 55022B

Immunity

EN 50082-1: 1997

61000-4-2, Level 3

61000-4-3, Level 2

61000-4-4, Level 2

61000-4-5, Level 3

61000-4-6, Level 2

61000-4-11

Power Factor Correction

>0.9 @ full load

Meet EN 61000-3-2

GENERAL:

Leakage Current

Less than 2mA (254VAC)

Dielectric Withstand

Input to Chassis Ground

1500VAC, 1 min., 10mA

Switching Frequency

70KHz (typical)

MTBF (Full load, 25°C)

100K hrs.

(MIL-HDBK-217F)

AC Input Mating Connector

Molex 09-50-3051

DC Output Mating Connector

Terminal Strip, M4 Screw

Fan Mating Connector

Molex 09-50-3041

Dimension Diagram Unit: mm (inch)

