

150W Power Factor Corrected Switchers

PSF-151 Low Profile Single and Dual Outputs



NEW POWER

Features

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

Applications

- Networking
- Compact Equipment
- Process Control
- Industrial Microcomputers

Safety Approvals Pending

- UL 1950, 3rd Edition
- CSA 22.2 950-M95
- TUV EN60950

Mechanical Characteristics

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

Output Specifications

Model Numbers	PFC Version	Voltage	DC Outputs			Ripple ⁽¹⁾	Regulation		Max Power	
			Min.	Conv.	30CFM	P-P	Line	Load	Conv.	30CFM
PSF-151-033		3.3V	0A	20A	30A	50mV	±0.5%	±3%	66W	99W
PSF-151-050		5V	0A	20A	30A	50mV	±0.5%	±3%	100W	150W
PSF-151-120		12V	0A	8.2A	12.5A	120mV	±0.5%	±3%	100W	150W
PSF-151-150		15V	0A	6.6A	10A	150mV	±0.5%	±3%	100W	150W
PSF-151-240		24V	0A	4A	6A	240mV	±0.5%	±3%	100W	150W
PSF-151-480		48V	0A	2A	3.1A	480mV	±0.5%	±3%	100W	150W
PSF-151-201		5V	2A	20A	30A	50mV	±0.5%	±3%	100W ⁽²⁾	150W ⁽²⁾
		12V	0A	4.6A	7A	120mV	±0.5%	±3%		
PSF-151-203		5V	2A	20A	30A	50mV	±0.5%	±3%	100W ⁽²⁾	150W ⁽²⁾
		3.3V	0A	6.6A	10A	50mV	±0.5%	±3%		
PSF-151-211		3.3V	2A	20A	30A	50mV	±0.5%	±3%	100W ⁽²⁾	150W ⁽²⁾
		12V	0A	4.6A	7A	120mV	±0.5%	±3%		
PSF-151-213		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.

ISO 9001 • BABT • MITI
Facility Approvals



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Characteristics

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
AC Surge Immunity:
IEC 61000-4-5, Level 3
Efficiency
75% Typical

OUTPUT:

Hold-up Time
16msec. typical, 120VAC
Overshoot on Turn-On
<5%
Overshoot Protection
120% of Normal
on Main Output
Overcurrent Protection
Auto restart
All outputs protected

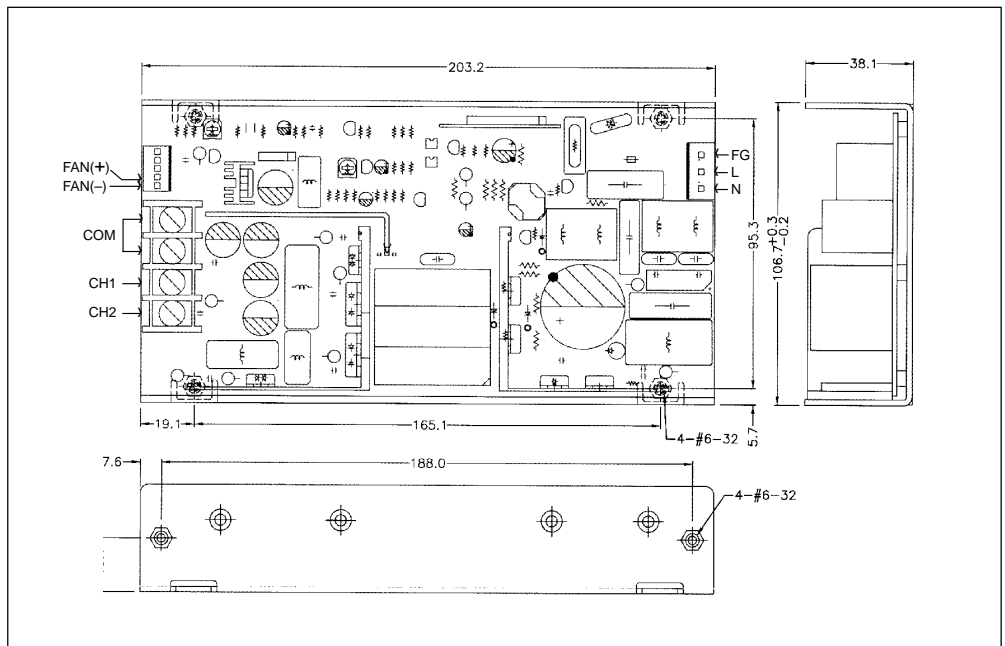
ENVIRONMENTAL:

Operation Temperature
0-50°C Derated to 70°C
Storage Temperature
-20°C to +85°C
Humidity
20 to 90% RH (Non-condensing)
Emissions
FCC Class B
EN 55022B
Immunity
EN 50082-1:61000-4-2, Level 3
61000-4-3, Level 2
61000-4-4, Level 2

GENERAL:

Leakage Current
Less than 2mA (240VAC)
Dielectric Withstand
Input to Output
1500VAC, 1 min., 10mA
Switching Frequency
70KHz (typical)
MTBF (Full load, 25°C)
MIL-HDBK: 100K hrs.
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)



PSF151/0103