



460W 1U AC/DC Power Supply with high efficiency, active PFC function and ATX output

Features

- High efficiency $\geq 86\%$
- Compact size for 1U Rackmount or Mini-ITX chassis
- 460W AC/DC with ATX output
- Input Voltage Range: 100V~240V, $\pm 10\%$
- Output Voltage: 5V / 3.3V / 12V / -12V / 5VSB
- Safety Standard: UL cUL, TUV
- EMI Standards: FCC Class A, CISPR22 Class A

Input

- 100V ~ 240V, $\pm 10\%$

Efficiency

- $\geq 86\%$ at 115VAC, at full load

Hold Up Time

- 16ms minimum, at max load & normal input voltage

Remote On/Off

- PSON compatible signal

Power Good

- TTL compatible signal

Cooling

- 40x40mm DC fan

Output Protection

- Short circuit, Overload & Over voltage power protection

MTBF

- Over 100,000 hours at 75% Loading and 25°C ambient temperature

Environment

- Operating Temperature: 0 to 45 °C.
- Humidity: 5% ~ 90% non condensing

EMI/RFI

- FCC Class A, CISPR22 Class A
- Comply to EN61000-3-2

Safety

- UL, cUL, TUV

Dimension

- 100(W) x 200(D) x 40.5(H) (mm)

Output Table

Output Voltage	+5V	+3.3V	+12V	-12V	+5VSB
Output Current (max)	25A	25A	34A	0.8A	3.5A
Output Current (min)	0.5A	0.5A	2A	0A	0.1A
Ripple/Noise Max	60mV	60mV	120mV	120mV	60mV
Line Regulation	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$
Load Regulation	$\pm 5\%$	$\pm 5\%$	$\pm 5\%$	$\pm 5\%$	$\pm 5\%$

1. Noise Test – Noise bandwidth is from DC to 20MHz.
2. Ripple frequencies greater than 1MHz shall be attenuated by the measurement System.
3. Add 0.1uF/10uF capacitor at output connector terminals for ripple and noise measurement.
4. The combined total power from 5V & 3.3V shall not exceed 160W.
5. Ripple/Noise max measured peak to peak.

Ordering Information

- PI-1460P** 460W AC/DC PSU for 1U chassis with active PFC function and ATX output
- PI-1400P** 400W AC/DC PSU for 1U chassis with active PFC function and ATX output*
- PI-1520P** 520W AC/DC PSU for 1U chassis with active PFC function and ATX output*

* Separate datasheets available for 400W and 520W output PSU