

# PLUTO-A2501PJ

250W Flex form factor Power supply  
with Active PFC Japan made capacitor  
80 PLUS and OVP, OCP, SCP

**250W  
Flex ATX**



20 Pin    4Pin P4\_12V    4 Pin    4Pin FDD    SATA

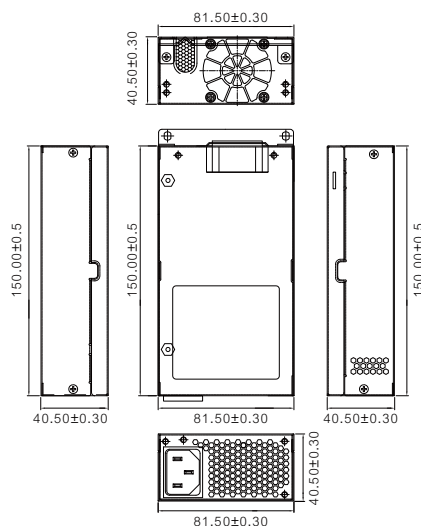
In an attempt to provide stable output and high reliability for different applications (communications, networks, servers and work stations), Portwell conducted a research to provide suitable PSU. In PLUTO series, only high quality components to meet those requirements are chosen.

The electrical characteristics of the PSU describe the quality of its outputs. In PLUTO-A2501PJ, all capacitors are from Japanese manufacturers: NCC and RUBYCON. The case material of PLUTO-A2501PJ is SECC that comes with high thermal conductive properties which helps to provide higher heat dissipating capacity.

High reliability is also an important feature for PLUTO-A2501PJ. Burn-in test in 0°C and 50°C for 12 hours at 100% loading is performed. In such test, PLUTO-A2501PJ can meet various environment standards and keep stable and efficient.

For the benefit of valuable machine and data, PLUTO-A2501PJ provides full protection including Over Temperature Protection, Short Circuit Protection, Over Voltage Protection, and Over Current Protection.

## MECHANICAL DRAWING



## FEATURES

- Power Efficiency (25°C and 50°C can meet the minimum efficiency (80%) for all loading conditions (20%,50,100%))
- Made in Japan capacitor (NCC and RUBYCON)
- Support Intel Celeron series
- Fan Control (Internal 4 cm fan)
- Audible Noise (40 dB ± 4dB)
- Remote on/off Control
- Hold-up Time in 17ms
- Power Good signal : TTL compatible on delay 100ms to 500ms, off delay 1ms
- Over Temperature Protection
- Short Circuit Protection
- Over Voltage Protection
- Over Current Protection

## INPUT SPECIFICATION

Input Voltage	90V~264V AC
Input Frequency	47Hz~63Hz
Input Current	4.0A@90V and 264V

## OUTPUT SPECIFICATION

Wattage	250W
Efficiency	>=80%
Holdup Time	17ms, at full load
Over Voltage Protection	+5V:5.5V~6.8V, +12V:13.2V~16.0V, +3.3V:3.7V~4.6V
Over Current Protection	+5V:20A, +12V:20A, +3.3V:18A
EMI & Safety Approval	CE, CB, FCC, VCCI, UL, TUV, 80PLUS

## DC OUTPUT

	+5V	+3.3V	+12V	-12V	+5Vsb
Max.Load	12A	10A	16A	0.3A	2A
Min.Load	1.0A	0.5A	1.0A	0A	0A
Load Reg.	±5%	±5%	±5%	±5%	±5%
Ripple	100mV	100mV	20mV	200mV	200mV
Noise	100mV	100mV	20mV	200mV	200mV

## GENERAL SPECIFICATION

MTBF	100,000 Hours at 100% loading
Temperature/ Humidity	Storage: -40°C to +70°C, 5% to 25% (non-condensing) Operation: 0°C to +50°C, 5% to 85% (non-condensing)
Dimension (W x D x H)	81.5 x 150 x 40.5mm; 5.9" x 3.2" x 1.6"
Storage altitude	-75.03~15250 meter
Operation altitude	-75.03~3000 meter
Risetime	0.1 ms to 20 ms.

