

## AP-2U80P868

### 800W 2U 80 PLUS Platinum Industrial EPS Power Supply



#### Product Overview

The Athena Power AP-2U80P868 is an 800W 2U single power supply designed for IPC, rackmount servers, and 24/7 industrial computing environments. The compact 2U form factor provides installation flexibility for industrial computer chassis and server platforms.

Certified to IEC/UL/EN 62368-1 safety standards, this power supply supports EPS-12V platforms with dual CPU capability via 8-pin and 4+4 pin connectors. Featuring Active PFC (Power Factor Correction), remote ON/OFF function, and dual 60mm ball-bearing fans, the AP-2U80P868 delivers reliable, high-efficiency performance with optimized thermal control for mission-critical systems.

#### Key Features

- 800W Continuous Power Output
- 2U Rackmount Form Factor
- 80 PLUS Platinum Certified Efficiency
- IEC/UL/EN 62368-1 Safety Certified
- Active PFC with Wide Input Range
- Dual 60mm Ball-Bearing Cooling Fans
- Smart Thermal Auto Fan Speed Control
- Supports EPS-12V Dual CPU Platforms
- Remote ON/OFF Control Function
- Designed for 24/7 Server Operation

## Electrical Specifications

|               |                         |
|---------------|-------------------------|
| Rated Power   | 800 Watts               |
| Input Voltage | 90 – 264V AC            |
| Frequency     | 47–63 Hz                |
| Power Factor  | Active PFC              |
| Efficiency    | 80 PLUS Platinum        |
| Hold-Up Time  | ≥11 ms at Nominal Input |
| Rise Time     | <70 ms                  |
| MTBF          | 250,000 Hours @ 25°C    |

## DC Output Ratings

|         |       |     |          |      |       |
|---------|-------|-----|----------|------|-------|
| Rail    | +3.3V | +5V | +12V1/V2 | -12V | +5VSB |
| Current | 18A   | 18A | 64A      | 0.5A | 2.5A  |

## Connectors & Cable Configuration

| 800W                     | Connector         |     |   |              |     |
|--------------------------|-------------------|-----|---|--------------|-----|
| Cable                    | Type              | Qty |   | Type         | Qty |
| 1                        | ATX 24-Pin (20+4) | 1   | + |              |     |
| 2                        | 8-Pin CPU         | 1   |   | (4+4) CPU    | 1   |
| 3                        | SATA              | 4   |   | Molex 4 Pin  | 1   |
| 4                        | SATA              | 4   |   | Molex 4 Pin  | 1   |
| 5                        | PCIe 6+2 Pin      | 1   |   | PCIe 6+2 Pin | 1   |
| 6                        | PCIe 8Pin (6+2)   | 1   |   |              |     |
| Note: Cable Color: Black |                   |     |   |              |     |

## Mechanical Specifications

|                        |                                             |
|------------------------|---------------------------------------------|
| Dimensions (L x W x H) | 200 x 100 x 69.7 mm (7.87 x 3.93 x 2.75 in) |
| Weight                 | 5.0 lbs                                     |
| Operating Temperature  | 0°C to +55°C (Full Load)                    |
| Storage Temperature    | -40°C to +70°C                              |
| Warranty               | 3-Year Limited Manufacturer Warranty        |



### Compliance & Certifications

- IEC/UL/EN 62368-1 Certified
- 80 PLUS Platinum Certified
- RoHS Compliant
- CE / FCC Compliant

### Application Areas

- Rackmount Servers
- Industrial PC (IPC) Systems
- Mini-Servers and Server Assemblies
- Network Appliances
- Workstations
- 24/7 Mission-Critical Systems

### Packaging Information

|                      |                               |
|----------------------|-------------------------------|
| Master Box Dimension | 7 x 18 x 5 inches (W x L x H) |
| Master Box Weight    | 6.0 lbs                       |
| UPC Code             | 821524028185                  |
| Package Quantity     | 1 Unit per Box                |