

# AP-3UMK12P868

1200W Industrial Grade 3U ATX Power Supply



## PRODUCT OVERVIEW

The Athena Power AP-3UMK12P868 is a 1200W industrial-grade power supply designed for high-demand computing environments. Built in a 3U form factor and compliant with ATX 3.1 and PCIe 5.0 standards, it delivers exceptional efficiency, stability, and compatibility across professional platforms.

Featuring the new 12V-2x6 (H++) connector, it offers safer and more reliable power for high-performance GPUs used in AI, rendering, and scientific computing. Its dual smart fan system with thermal speed control maintains optimal airflow and quiet operation, even under full load.

Rated 80 PLUS Platinum, the PSU delivers up to 92% efficiency to minimize energy waste and reduce operational costs. With universal AC input (100-240V), active PFC, and low ripple output, the AP-3UMK12P868 is well-suited for global deployment and sensitive applications like audio and video production. It is fully safety-certified to IEC/UL 62368-1 standards.

AT A GLANCE	
<b>1200W</b>	Output
<b>80 PLUS</b>	Platinum
<b>ATX 3.1 / PCIe 5.0</b>	Compliant
<b>12V-2x6 (H++)</b>	GPU Connector
<b>Universal</b>	100-240V AC
<b>3U</b>	Form Factor

## FEATURE HIGHLIGHTS

- 1200W continuous power output for high-performance systems
- 80 PLUS Platinum efficiency - up to 92% under typical loads
- ATX 3.1 & PCIe 5.0 compliant for future-ready compatibility
- 12V-2x6 (H++) GPU connector for improved current handling and thermal safety
- Dual smart fans with thermal speed control for efficient, quiet cooling
- Universal AC input (100-240V) with active PFC for global use
- Low ripple and noise output - ideal for mission-critical and A/V environments
- IEC/UL 62368-1 certified for international safety standards
- Supports ATX 20/24-pin, EPS-12V, PCIe, SATA, and Molex connections
- 3U form factor - perfect for rackmount servers, workstations, and custom builds

# AP-3UMK12P868

## Detailed Technical Specifications

## TECHNICAL SPECIFICATIONS

<b>Model</b>	AP-3UMK12P868
<b>Product Category</b>	3U
<b>Output Power</b>	1200 Watts
<b>Input Voltage</b>	100 ~ 264 Volts AC
<b>Frequency</b>	47/63 Hz
<b>Temperature Range</b>	Operating: 0°C ~ +50°C on Full Load; Storage & Shipping: -20°C ~ +80°C
<b>MTBF</b>	100,000 Hours on Maximum Load at +25°C
<b>Rise Time</b>	Less than 20 ms
<b>Hold-up Time</b>	17 ms Minimum at Nominal Input Voltage
<b>Dimension</b>	3U (D x W x H) 200 x 115.5 x 86.4 mm / 7.84 x 4.5 x 3.4 in
<b>Weight</b>	5.00 lb
<b>Warranty</b>	5 Year Manufacture Limited Warranty

## DC OUTPUT RATING

Rail	+3.3V	+5V	+12V	-12V	+5V-SB
<b>Max Current</b>	18A	18A	100A	0.5A	3.0A

Note: Combined power distribution must follow system loading and connector safety guidelines.

## CONNECTORS

Connector Type	Quantity / Description
<b>ATX Connector</b>	24 (20+4) Pin x 1
<b>12V-2x6 (H++)</b>	600W Connector x 1
<b>EPS-12V</b>	8 Pin x 1 + 8 Pin (4+4) x 1
<b>PCIe</b>	6+2 Pin x 2
<b>SATA</b>	15 Pin x 8
<b>Molex</b>	4 Pin x 2

## MANUFACTURE PACKAGE INFORMATION

Package Item	Details
<b>Master Box Dimension</b>	11" x 8" x 4" (W x L x H)
<b>Master Box Weight</b>	5.00 lbs
<b>UPC Code</b>	821524031284
<b>Package Quantity</b>	1 / Box