# [Metered Rack PDU](#)

# Rack PDU, Metered, Zero U, 15A, 100/120V, (16) 5-15

**RoHS**

APC Metered Rack PDU , Input: 120V , Input Connections: NEMA 5-15P , Cord Length: 10 feet ( 3.05 meters ) , Output: 120V , Output Connections: NEMA 5-15R

**Includes**: Cord retention bracket(s), Installation guide, Rack Mounting brackets, Toolless Mounting Kit, User Manual

**Standard Lead Time**: Usually in Stock

# AP7831 Features

| | |
|---|---|
| Toolless Mounting Capabilities | Units do not require additional tools to mount into APC NetShelter VX, which allows the users to quickly and easily mount units in the rear of the enclosure. |
| Vertical Mounting Capabilities | Easily mounts vertically in racks or enclosures and occupies zero U of valuable rack space, which allows more equipment in the rack. Units that mount vertically are optimized to fit in a NetShelter VX enclosures. |

# Metered Rack PDU Features & Benefits

| Availability | |
|---|---|
| Remote Management Capabilities | Full-featured network management interfaces that provide standards-based management via Web, SNMP, and Telnet. Allows users to access, configure, and manage units from remote locations to save valuable time. Associated with this feature is the ability to quickly and easily upgrade the firmware via network download to installed units for future product enhancements. (Note: Only applicable for units categorized as Networked). |
| Local Current Monitoring Display | The aggregate current draw per power distribution unit is displayed on the unit via a digital display. The local digital display helps installers avoid overloaded circuits by providing a visible warning when the current draw is close to the maximum amperage draw of the strip. |
| Alarm Thresholds | Define alarm thresholds in order to avoid overloaded circuits. Network and visual alarms inform the user of possible problems. (Note: Only available on units with the current monitoring capabilities. Please see SKU specifications for availability) |
| Load indicator LED | Indicates overload and warning conditions based on the user-defined alarm thresholds. Alerts users of potential overloaded circuits. |
| Integrates with InfraStruXure Central | An IT-ready, scalable monitoring system that collects, organizes, and distributes critical alerts, surveillance video and key information, providing a unified view of complex physical infrastructure environments from anywhere on the network |
| Flash Upgradeable | Quickly and easily upgrade firmware via network download for future product enhancements. Eliminates the need to replace products already installed in the field when new features are released. (Note: Networked units only) |
| Agility | |
| Rack-Mountable | Includes horizontal, vertical, and toolless-mount varieties. Puts power where it is needed most - in the racks near the equipment. |
| Single input power source | Supply power from one branch whip to multiple pieces of equipment, conveniently powering rack-mount equipment. Saves time and money during installation by using one branch whip and standard connections. |
| Wide range of input and output connections | Product family includes a variety of input and output connections to distribute 120V, 208V, or 230V power to multiple outlets. Having a variety of inputs and outputs allow users to adapt to varying power requirements. APC offers units that bring up to 14.4kW using a single branch whip. |

# Output

| | |
|---|---|
| Nominal Output Voltage | 120V |
| Maximum Total Current Draw per Phase | 15A |
| Output Connections | (16) NEMA 5-15R |
| Always on Outlets | 16 |
| Overload Protection | No |

# Input

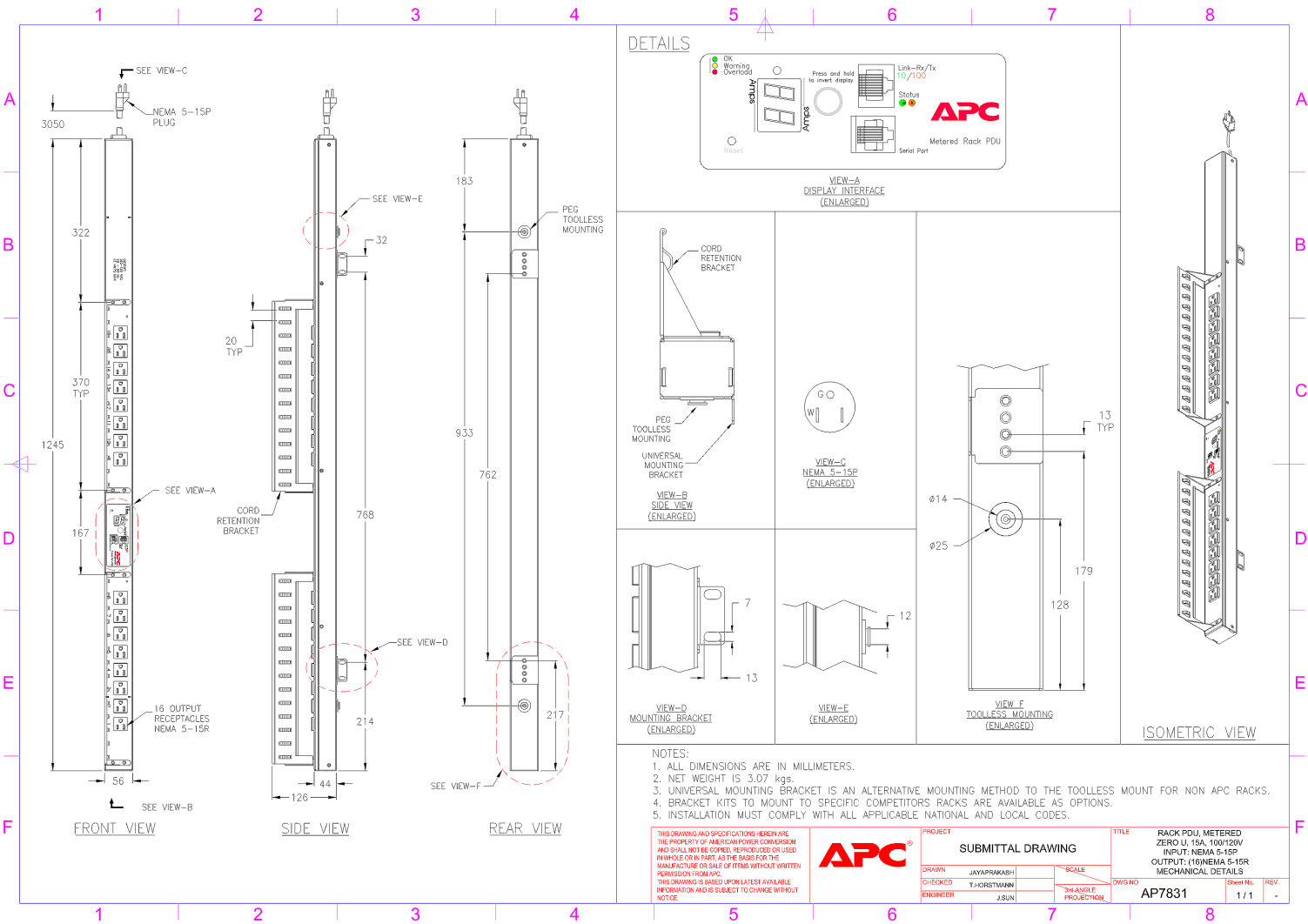| | |
|---|---|
| Nominal Input Voltage | 120V |
| Input Frequency | 50/60 Hz |
| Regulatory Derated Input Current (North America) | 12A |
| Input Connections | NEMA 5-15P |
| Cord Length | 3.05 meters |
| Number of Power Cords | 1 |
| Acceptable Input Voltage | 100-120 VAC |
| Maximum Line Current per phase | 15A |
| Maximum Input Current per phase | 15A |
| Load Capacity | 1440 VA |

# Physical

| | |
|---|---|
| Net Weight | 3.07 KG |
| Maximum Height | 1245.00 mm |
| Maximum Width | 56.00 mm |
| Maximum Depth | 44.00 mm |
| Shipping Weight | 3.98 KG |
| Shipping Height | 2134.00 mm |
| Shipping Width | 152.00 mm |
| Shipping Depth | 127.00 mm |
| Color | Black |

# Environmental

| | |
|---|---|
| Operating Environment | -5 - 45 °C |
| Operating Relative Humidity | 5% |
| Operating Elevation | 0-3000 meters |
| Storage Temperature | -25 - 65 °C |
| Storage Relative Humidity | 5% |
| Storage Elevation | 0-15000 meters |

# Conformance

| | |
|---|---|
| Regulatory Approvals | cUL Listed,cUL Recognized,CSA C22.2 No. 42,CSA C22.2 No. 60950-1-03,FCC Part 15 Class A,ICES-003,Industry Canada,METI Denan,UL 60950-1,UL Listed,VCCI |
| Standard Warranty | 2 years repair or replace |
| ROHS/WEEE Compliance | RoHS 7b Exemption |

DETAILS

OK
Warning
Overload
Amps
Press and hold
to invert display
Link—Rx/Tx
10 /100
Status
APC
Metered Rack PDU
Serial Port
Reset

VIEW—A
DISPLAY INTERFACE
(ENLARGED)

SEE VIEW—C

NEMA 5—15P
PLUG

3050

322

370
TYP

1245

167

SEE VIEW—A

16 OUTPUT
RECEPTACLES
NEMA 5—15R

56

SEE VIEW—B

FRONT VIEW

SEE VIEW—E

32

20
TYP

CORD
RETENTION
BRACKET

768

SEE VIEW—D

214

44
126

SIDE VIEW

183

PEG
TOOLLESS
MOUNTING

933

762

217

SEE VIEW—F

REAR VIEW

CORD
RETENTION
BRACKET

PEG
TOOLLESS
MOUNTING

UNIVERSAL
MOUNTING
BRACKET

VIEW—B
SIDE VIEW
(ENLARGED)

G O
W
VIEW—C
NEMA 5—15P
(ENLARGED)

7

13

VIEW—D
MOUNTING BRACKET
(ENLARGED)

12

VIEW—E
(ENLARGED)

13
TYP

ø14
ø25

179

128

VIEW F
TOOLLESS MOUNTING
(ENLARGED)

ISOMETRIC VIEW

NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS.
2. NET WEIGHT IS 3.07 kgs.
3. UNIVERSAL MOUNTING BRACKET IS AN ALTERNATIVE MOUNTING METHOD TO THE TOOLLESS MOUNT FOR NON APC RACKS.
4. BRACKET KITS TO MOUNT TO SPECIFIC COMPETITORS RACKS ARE AVAILABLE AS OPTIONS.
5. INSTALLATION MUST COMPLY WITH ALL APPLICABLE NATIONAL AND LOCAL CODES.

APC®

SUBMITTAL DRAWING

| | | |
|---|---|---|
| PROJECT | | TITLE |
| DRAWN | JAYAPRAKASH | |
| CHECKED | T.HORSTMANN | |
| ENGINEER | J.SUN | |

SCALE

3rd ANGLE PROJECTION

RACK PDU, METERED
ZERO U, 15A, 100/120V
INPUT: NEMA 5-15P
OUTPUT: (16)NEMA 5-15R
MECHANICAL DETAILS

DWG NO
AP7831

Sheet No.
1 / 1

REV.
-

# APC®
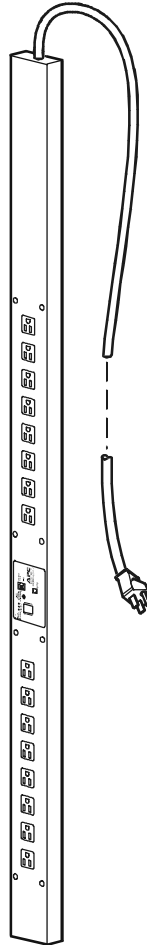
# Metered Rack PDU

## Overview

The American Power Conversion® Metered Rack PDU distributes power to devices in the rack. It has a sensor that measures the current used by the PDU and its attached devices. The PDU can be monitored through Web, Telnet, SNMP, SSH, or InfraStruXure™ Manager interfaces.

**Outlets.** The Rack PDU has sixteen (16) NEMA 5-15 outlets.

**Display interface.** A digital display shows the aggregate current used by the Rack PDU.

**Power cord.** The 10-foot (3.05-meter) power cord terminates with a NEMA 5-15 connector.

**AP7831**

# APC

## Specifications for AP7831

### Electrical

| | |
|---|---|
| Input connector | NEMA 5-15 plug |
| Output connectors | (16) NEMA 5-15 outlets |
| Nominal input voltage | 100 – 120 VAC |
| Acceptable input voltage | ± 10% of nominal voltage |
| Input frequency | 47 – 63 Hz |

### Physical

| | |
|---|---|
| Dimensions (H × W × D) | 49.00 × 2.20 × 1.75 in<br>(126.46 × 5.59 × 4.45 cm) |
| Shipping dimensions<br>(H × W × D) | 84.00 × 6.00 × 5.00 in<br>(213.36 × 15.24 × 12.7 cm) |
| Weight | 6.75 lb (3.06 kg) |
| Shipping weight | 8.75 lb (3.97 kg) |

### Environmental

| | |
|---|---|
| Maximum elevation<br>(above MSL)<br>  Operating<br>  Storage | <br><br>10,000 ft (3000 m)<br>50,000 ft (15 000 m) |
| Temperature<br>  Operating<br>  Storage | <br>23 to 113° F (−5 to 45° C)<br>−13 to 149° F (−25 to 65° C) |
| Humidity<br>  Operating<br>  Storage | <br>5 – 95% RH Non-condensing<br>5 – 95% RH Non-condensing |

### Compliance

| | |
|---|---|
| EMC verification | VCCI, FCC Part 15 Class A<br>ICES-003 |
| Safety verification | UL/cUL 60950 Listed<br>METI-DENAN |

**990-1773A**

CERTIFIED
InfraStruXure
BY APC