Lenovo 1U Basic PDUs
Product Guide

The Lenovo (1U) Basic power distribution units (PDUs) are the ideal solutions when you need flexible, reliable, easy-to-deploy power distribution with branch circuit protection to minimize downtime. These rack-dense units distribute power to up to 42 outlets. The 1U PDUs are designed to be installed vertically in the rear channel or side pockets of a Lenovo rack, thereby not consuming any horizontal rack space that otherwise be used by servers, storage and network switches.

The following figure displays the 1U Basic PDU.

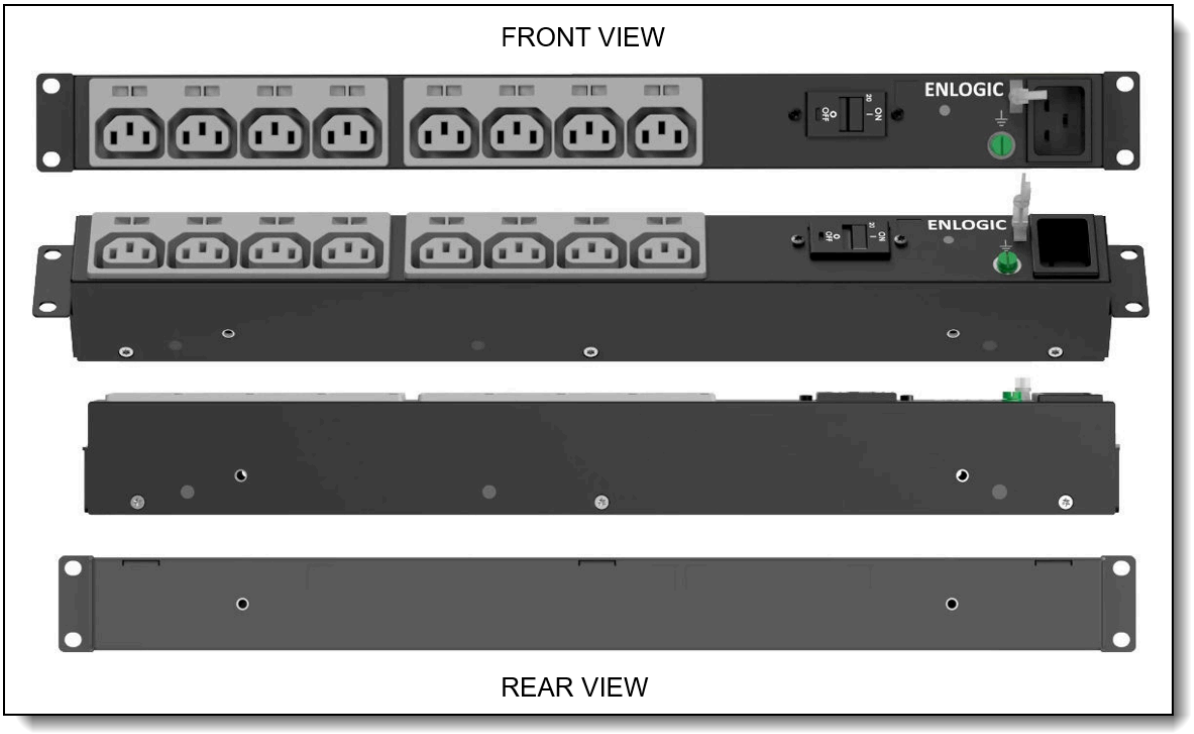

Figure 1. Lenovo 1U Basic PDU

Did you know?

With ever growing power densities in today's rack environments, it is all too easy to add load in the wrong place and trigger an overload event. The 1U Basic PDU offerings can minimize this impact, providing the ability to quickly recover with resettable circuit breakers for each designated bank of receptacles, referred to as load groups. Breakers are color coded to the receptacles in a particular load group to aid in configuration, installation, and maintenance.

Introduction to PDUs

A power distribution unit (PDU) is a highly reliable, multiple outlet power strip designed to consolidate line cords within the rack and distribute conditioned power from an uninterruptible power supply (UPS) or utility power to servers and other IT equipment. The PDU efficiently distributes power within the rack and provides fault-tolerant power redundancy for high availability requirements.

There are three types of PDUs available from Lenovo: basic, monitored, and switched & monitored. The PDUs covered in this document are of the basic type.

- Basic PDUs: The simplest and most cost-effective power distribution. Available with various outlet configurations and line cord options to support different systems and load requirements.
- Monitored PDUs: provides the same benefits as a Basic PDU, but adds additional advanced PDU power monitoring down to the load group. This enables businesses to have a cross-platform rack-level power and thermal view for trending analysis to improve power management
- Switched & monitored PDUs: These are advanced power management solutions, providing power monitoring at the outlet level, with increased accuracy at low amperages, for more precise views of power consumption down to the individual server level instead of at the consolidated load group. These PDUs also offer management via a web-based interface which includes individual outlet switching (on/off). Outlet switching allows for remote power sequencing and helps prevent unintended PDU overloading.

Part number information

The following table provides the ordering part numbers and feature codes for the 1U Basic PDU.

Table 1. Part number information for 1U Basic PDU

Part number	Feature code	Description	ANZ	ASEAN	Brazil	EET	MEA	RUCIS	WE	HTK	INDIA	JAPAN	LA	NA	PRC
4PU7B12339	CE6L	1U Basic 16A 1 Phase PDU	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y

The PDUs include the following items:

- Power distribution unit with attached power cord
- Mounting rails for supported rack cabinets - horizontal and vertical (side pocket) mounting

The Environmental Sensor includes the following:

- Operating Temperature: -5 to 60C (23 to 140F) / -20 to 60C (-4 to 140F)
- Humidity (operating/storage): 5-90% RH / 5-95% RH; non-condensing
- Max operating elevation: 3,000 m (9,840 ft)

Included with the PDUs

The PDUs include the following items:

- One Power Distribution Unit with an attached power cord
- Two spare black plastic key hole buttons for securing clip feet on rack
- Mounting hardware
- Adhesive power feed labels: 1x blue arrow and 1x red arrow (to indicate power source flow)
- PDU warranty poster
- Safety CD

- Important notice
- Quick start guide

Features and specifications

The 1U Basic PDU has the following common features:

- This PDU is Enlogic-supplied basic PDU. This is called basic PDU as it is the simplest and most cost-effective power distribution available.
- 1U rack-dense design with attached input cable, primary outlets, and breakers on one face to improve usability and cable management
- Hardware included to mount in side pocket of rack
- Easily accessible and resettable, color coded circuit breakers to aid in set up, configuration and maintenance in high availability environments.
- Electronic over-current protection
- High capacity up to 3.68 kVA
- The use of PDUs simplifies cable management and increases accessibility. In addition, the button-mount design of these 1U Basic PDUs helps simplify deployment by providing rear and/or side mounting in 42U and 48U rack cabinets making installation of these PDUs extremely versatile. For a complete list of supported rack cabinets, see the Supported rack cabinets section.

The following table compares the technical and environmental specifications of the 1U Basic PDUs.

Table 2. PDU specifications

Feature	**1U Basic 16A 1 Phase PDU**
Part Number	4PU7B12339
Status	Available
Feature Code	CE6L
Input power	
Number of phases	Single phase input
Line cord	Attached line cord, 2 m length (6.6-ft, 79.2-in)
Line cord connector	IEC 320-C20
Input voltage	100-240 VAC, 1 Phase
Input current	20A (derated 16A)
Input frequency	50/60 Hz
Maximum power rating	3.68 kVA
Output power	
Number of IEC 320-C13 outlets	8
Output voltage rating at 50/60Hz	120V North America, 230V International
Output current rating	Each C13 outlet: 10 amps
Circuit breakers	One single-pole branch rated circuit breaker rated at 20A
Capacity per PDU (Amps)	16 A
Mechanical and environmental	
Physical dimensions (DxWxH)	49.0 x 44.0 x 444.0 mm 1.93 x 1.73 x 17.48 (inches)
Weight	7.3 kg / 16.1 lb.
Operating temperature	-5 to 60C (23 to 140F) / -20 to 60C (-4 to 140F)

Feature	1U Basic 16A 1 Phase PDU
Operating humidity	5-90% RH / 5-95% RH; non-condensing

Selecting the right PDU

To avoid over sizing or under sizing power, it is important to understand the power requirements of the hardware that will be powered by the PDU(s). To help calculate the power consumption and current value in different deployments, use the Lenovo Capacity Planner (LCP). The tool can be leveraged online from https://datacentersupport.lenovo.com/us/en/solutions/lnvo-lcp

Likewise, to avoid over sizing or under sizing PDUs it is also important to understand the PDU capabilities and capacities.

Consider the following for capabilities:

- Do you require monitoring and/or outlet switching? If so, then visit the Product Guide for switched & monitored PDUs at http://lenovopress.lenovo.com/LP1556/. If not, consider the Basic PDUs described here.
- Do you require environmental monitoring capabilities? If so, then visit the Product Guide for switched & monitored PDUs at http://lenovopress.lenovo.com/LP1556/. If not, consider the Basic PDUs described here.
- Does the PDU have the right type of power for your scenario? For example, 16A, 30A, 32A, 63A and single or three phase power?
- Does the PDU have enough of the correct type of outlets for your scenario?

Consider the following for capacities:

- Will each outlet be able to support the load being connected to it? For example, C13 outlets have a 10A limit.
- Will each load group be able to support the hardware being connected to it?
- Will each phase, where applicable, be able to support the hardware being connected to it?
- Is the overall power capacity of the PDU able to support the hardware being connected to it?
- Do you have enough PDUs to be N+N or N+1 redundancy if this is required?

The Lenovo Capacity Planner (LCP) is a useful tool to determine the power draw of other devices such as storage and switching that will be attached to the PDUs, refer to the products user manual for the maximum power draw.

Supported rack cabinets

The 1U PDUs can be installed in all 17 inch rack cabinets.

- For specifications about these racks supporting "1U PDU mounting points" , see the Lenovo Rack Cabinet Reference, available from:
  https://lenovopress.com/lp1287-lenovo-rack-cabinet-reference

Each PDU has a universal mounting bracket that enables the PDU to be mounted in a variety of different racks that are outside of the Lenovo portfolio.

The PDU is designed to be mounted without the use of tools. Mounting buttons are pre-installed on the rear of the PDU at the factory. The mounting buttons allow for three mounting methods for installing the 1U Basic PDUs vertically in a rack.

- Using factory-installed buttons on the PDU to mount the PDU in keyhole openings in the rack frame
- Using buttons on clip feet to mount the PDU in keyhole openings in the rack frame
- Using clip feet and cage nuts secured to the rack to mount the PDU onto the clip

For additional information on racking the 1U Basic PDUs, refer to User's Guide for the PDUs.

Warranty

The 1U Basic PDUs are offered with a three-year limited warranty. At Lenovo discretion this warranty will be either CRU service (customer replaceable unit) or a Lenovo employee, subcontractor or reseller will be assigned to repair the failing item. Proof and date of purchase is required for warranty claims.

Agency approvals

The PDUs conform to the following standards:

- IEC 62368 listed
- RoHS, and REACH compliant
- Outlet standard: IEC C13-C19: UL498 and IEC 60320

Related publications and links

For more information, see the following documents:

- Lenovo Rack Cabinet Reference
  https://lenovopress.com/lp1287-lenovo-rack-cabinet-reference
- Lenovo Capacity Planner (LCP):
  https://datacentersupport.lenovo.com/us/en/solutions/lnvo-lcp
- nVent products for Lenovo:
  https://www.nvent.com/en-us/data-solutions/support/lenovo

Related product families

Product families related to this document are the following:

- Power Distribution Units

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