0U Power Distribution Units

Optimized for easy and cost-effective power distribution

Increasing server and rack power densities can introduce cable and power management complexities. Implementing an optimized power distribution design is a critical first step in reducing cost, simplifying cable management and efficiently powering your high-availability System x® and BladeCenter® environments.

0U 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 up to 24 outlets in a 0U configuration to avoid consuming any of the rack unit space that should be reserved for IT equipment.

Simplify deployment

These space-saving 0U vertical rack-strip offerings mount in the rear channels of 42U and above rack cabinets to conserve valuable U space for IT equipment, simplify cable management and increase accessibility. Button-mount designs help simplify deployment by providing toolless rear mounting in 9360, 9361 and 9362 model rack cabinets, reducing installation time.

Minimize downtime

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 0U 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. If a breaker trips, simply switch that circuit back on to reset. These distribution units feature three to six 20 A double-pole-branch-rated circuit breakers designed for high availability.

Increase power density

Engineered for density, these designs are available in 12 IEC-320-C19 (16 A) and 12 IEC-320-C13 (10 A) or 24 IEC-320-C13 (10 A) receptacle configurations. These fixed line cord models are equipped to meet the requirements of your most power-demanding and highest-availability systems with single-phase 30 A, 32 A, and three-phase 16 A, 30 A, 32 A and 50 A solutions available.

Streamline cabling

By connecting multiple rack devices to a single PDU using short, easy-to-manage cables, you can significantly reduce the number of power cords extending from the rack to the wall, alleviating clutter and simplifying power distribution.

Efficient 0U 24 IEC-320-C13 receptacle designs can cost effectively distribute power to densely populated System x rack environments.

0U PDU offerings featuring 12 IEC-320-C19 and 12 IEC-320-C13 receptacles are designed for the most power-demanding and highest-availability System x and BladeCenter environments.

Toolless 0U PDU rear-channel mounting reduces installation time and increases accessibility.

Specifications

Part number	46M4128	46M4131	46M4122	46M4125	46M4140	46M4143
Description	0U 24 C13 30 A PDU	0U 24 C13 32 A PDU	0U 24 C13 16 A 3-phase PDU	0U 24 C13 30 A 3-phase PDU	0U 12 C19/12 C13 50 A 3-phase PDU	0U 12 C19/12 C13 32 A 3-phase PDU
Power input						
Input power	Single-phase		Three-phase		Three-phase	
Input cord connector	NEMA L6-30P	IEC-309 P+N+Gnd	IEC-309 3P+N+Gnd	NEMA L21-30P	CS8365L	IEC-309 3P+N+Gnd
Input cord length	Fixed, three meters (9 ft 10 in.)					
Input voltage	200–208 V	220–240 V	220–240 V/ 380–415 V	200–208 V	200–208 V	220–240 V/ 380–415 V
Input current rating	30 A	32 A	16 A	30 A	50 A	32 A
Power output						
Output power	Single-phase		Single-phase		Single-phase	
Output receptacles (IEC-320)	(24) C13	(24) C13	(24) C13	(24) C13	(12) C13 and (12) C19	(12) C13 and (12) C19
Output voltage rating	200–208 V	220–240 V	220–240 V	200–208 V	200–208 V	220–240 V
Output current rating	24 A	32 A	48 A	41.6 A	69.28 A	96 A
Environmental and Safety						
Operating temperature (0–3000 ft)	10° C to 55° C (50° F to 122° F) for 0U models					
Mounting option	Toolless mounting in 9360, 9361 and 9362 racks. Hardware included for rear channel vertical mounting in other 42U cabinets; both installations are approved for preconfigured shipment in select racks					
Operating relative humidity	5% - 90% non-condensing					
Cooling	Convection only. The PDU does not contain a fan					
Safety	Immunity – EN55024:2003; IEC 6100-4-2, -3, -4, -5, -6, -8, -11					

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Specifications

Mechanical

Form factor	Units are 1.75 inches wide and can be mounted in rear channels of racks.					
Physical dimensions HxWxD	900 × 44.5 × 85 mm (35.43 × 1.75 × 3.35 in.)				1200 × 44.5 × 85 mm (47.24 × 1.75 × 3.35 in.)	
Additional clearance	25 mm (0.98 in.) for circuit breakers					
Unit weight	5.5 kg (12.1 lb)	5.4 kg (11.9 lb)	5.5 kg (12.1 lb)	6.2 kg (13.7 lb)	9.7 kg (21.4 lb)	7.8 kg (17.2 lb)
Protection	Three 20 A, UL 489 circuit breakers				Six 20 A, UL 489 circuit breakers	
Warranty	Three-year limited warranty					

Why System x

System x is the leading provider of x86 systems for the data center. The portfolio includes rack, tower, blade, dense and converged systems, and supports enterprise class performance, reliability and security. System x also offers a full range of networking, storage, software and solutions, and comprehensive services supporting business needs throughout the IT lifecycle.

For more information

To learn more about the 0U PDUs, contact your Business Partner or visit **lenovo.com**/thinkserver

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