

SPECIFICATIONS

The ES2P Panduit™ Power Distribution Unit (PDU) is designed for the rapidly increasing needs and growth of our customers. Providing high reliability, quality, and the best mix of features for data centers, enterprise, or edge deployment settings making this PDU an effective, efficient, and eco-friendly offering from Panduit.

TECHNICAL INFORMATION

<i>Dimensions:</i>	Height In. (mm)	Width In. (mm)	Depth In. (mm)
1U:	1.7 (44)	16.9 (430)	1.9 (50)
1U:	1.7 (44)	16.9 (430)	3.9 (100)
0U HALF:	31.4 (800)	2.1 (55)	2.0 (53)
0U MID:	58.6 (1490)	2.1 (55)	2.0 (53)
0U FULL:	68.8 (1750)	2.1 (55)	2.0 (53)
0U FULL:	68.8 (1750)	2.1 (55)	2.6 (68)
Temperature operating:	0°C to 55°C (32°F to 131°F)		
Temperature storage:	-20°C to 65°C (-4°F to 149°F)		
Relative humidity operating:	10% to 90% non-condensing		
Relative humidity non-operating:	5% to 95%		
Relative humidity storage:	5% to 95%		
Elevation operating:	0 to 10,000 ft. (0m to 3,000m)		
Elevation storage:	0 to 30,000 ft. (0m to 9,144m)		
Conformance standards & environmental compliance:	CB Test Approved CE Approved, RCM Certification, REACH, RoHS		

KEY FEATURES AND BENEFITS

Five-year warranty:	Designed and built with the Panduit Quality Methodology, a five-year* replacement warranty is offered with this product (*Three-year default warranty plus two free years upon online registration)
Hot swappable controller:	Replace the controller and display module without having to power down the rack. Specifically designed for landlord/tenant (colocations).
Hardened security:	SNMP v3, TLS, Encrypted Security; allows for Panduit PDUs to pass standard, popular industry-certified security scans. PEN Certified Security with industry best security practice high score.
Resilient design:	55°C ambient at full load for operational reliability in high-temperature areas
Scale as you grow:	Daisy chain up to 16 PDUs for simplified deployment and maintenance of IP addresses
Multi-color chassis	Different color chassis simplify power feed identification in redundant power schemes. This must be requested as an Engineered to Order (ETO).
Mega ethernet:	Reduces deployment time by auto-negotiating with data-center-level network switches
Plug and play sensors:	Digital sensors identify to the controller to simplify setup and commissioning and allow for multiple sensors on the same bus
Outlet density:	Maximizing space in the minimal footprint and selected PDU technology
Mobile and desktop friendly web GUI:	Enhanced web interface that detects the type of device the user is on (laptop, tablet, or smart phone), and automatically adjusts the screen for an optimal experience
Safety first:	Protects data center equipment for increased reliability by interrupting potentially hazardous circuit over-current conditions with hydraulic magnetic breakers.



ES2P Power Distribution Unit (PDU)

PDU PRODUCT FAMILIES

Basic:	Basic Rack PDUs provide reliable power distribution for all devices in your cabinets and racks. They range in power from 1.4 kVA – 22 kVA per cabinet in single-phase and three-phase voltages, horizontal, and vertical form factors.
MI:	Monitored Input (MI) Rack PDUs have the ability for aggregate power monitoring to quickly identify potential power issues, and reclaim available or under-utilized power capacity.
MS:	Monitored Switched (MS) Rack PDUs have the ability for aggregate power monitoring and outlet level switching capabilities for individual outlets or a group of outlets. Enabling power sequencing, rebooting equipment, or restricting unauthorized use of individual outlets.
MPO:	Monitored per Outlet (MPO) Rack PDUs have the ability for outlet level (and aggregate) power monitoring to quickly identify potential power issues, and reclaim available or under-utilized power capacity at the outlet level enabling the redeployment or decommissioning of individual servers to reclaim available or under-utilized power capacity.
MSPO:	Monitored Switched per Outlet (MSPO) Rack PDUs have the ability for outlet level (and aggregate) power monitoring and outlet level switching capabilities for individual outlets or a group of outlets. Power monitoring at the individual outlet level provides actionable management data on the power consumption of each connected IT device enabling the redeployment or decommissioning of individual servers to reclaim available or under-utilized power capacity. Ideal for remote power reset, and cabinet power on sequencing and restrict unauthorized use of individual outlets.

ELECTRICAL PROPERTIES










Input voltage models:	Single-phase 240 V Three-phase WYE 240/415 V
Input current (per phase):	16 Amps, 32 Amps
Input power:	3.7 - 22 (kVA)
Input frequency:	50/60 Hz
Output voltage:	120 - 240 VAC
Maximum output current (outlet):	10 Amps (IEC C13); 16 Amps (IEC C19)
Overload protection (where applicable):	Circuit breakers, hydraulic magnetic

APPLICATIONS

Panduit Power Distribution Units can be easily installed into Panduit (or third-party) cabinets by utilizing the installed mounting buttons (18.4mm diameter). Where necessary, a small diameter (14.5mm) mounting button is available (sold separately, P/N: MA018). Featuring threaded inserts on the back for the ultimate in mounting flexibility, Panduit PDUs safely and efficiently manage and distribute power to multiple devices through a single input power connector, per PDU, to enhance scalability of network build outs.

PRODUCT SPECIFICATIONS





BASIC SERIES

Part Number	Input Voltage, VAC	Input Current per Phase, Amps/P	Form Factor	Input Plug Type	Circuit Breakers	Apparent Power (kVA)	Outlet Count	Outlet Configuration	Length In. (mm)	Width In. (mm)	Depth In. (mm)
E12B01M	100-240	16/1	Horizontal (1U)	IEC C20 200-240V Inlet	0	3.7	12	 (12)C13	1.7 (44)	16.9 (430)	1.9 (50)
E22B39M	100-240	16/1	0U HALF	IEC 60309 2P+E 6h 16A (IP44)	0	3.7	22	 (20)C13  (2)C19	31.4 (800)	2.1 (55)	2.0 (53)
E24B10M	100-240	16/1	0U MID	IEC 60309 2P+E 6h 16A (IP44)	0	3.7	24	 (20)C13  (4)C19	31.4 (1490)	2.1 (55)	2.0 (53)
E24B11M	100-240	32/1	0U MID	IEC 60309 2P+E 6h 32A (IP44)	2	7.4	24	 (20)C13  (4)C19	58.6 (1490)	2.1 (55)	2.0 (53)
E30B06M	100-240	32/1	0U MID	IEC 60309 2P+E 6h 32A (IP44)	2	7.4	30	 (24)C13  (6)C19	58.6 (1490)	2.1 (55)	2.0 (53)












ES2P Power Distribution Unit (PDU)

PRODUCT SPECIFICATIONS (CONTINUED)









BASIC SERIES (CONTINUED)

Part Number	Input Voltage, VAC	Input Current per Phase, Amps/P	Form Factor	Input Plug Type	Circuit Breakers	Apparent Power (kVA)	Outlet Count	Outlet Configuration	Length In. (mm)	Width In. (mm)	Depth In. (mm)
E30B13M	100-240/ 346-415, WYE	16/3	0U MID	IEC 60309 3P+N+E 6h 16A (IP44)	0	11	30	 (24)C13  (6)C19	58.6 (1490)	2.1 (55)	2.0 (53)
E42B11M	100-240/ 346-415, WYE	32/3	0U FULL	IEC 60309 3P+N+E 6h 32A (IP44)	6	22	42	 (30)C13  (12)C19	68.8 (1750)	2.1 (55)	2.0 (53)





MONITORED INPUT – MI SERIES

Part Number	Input Voltage, VAC	Input Current per Phase, Amps/P	Form Factor	Input Plug Type	Circuit Breakers	Apparent Power (kVA)	Outlet Count	Outlet Configuration	Length In. (mm)	Width In. (mm)	Depth In. (mm)
E08D01M	100-240	16/1	Horizontal (1U)	IEC C20 200-240V Inlet	0	3.7	8	 (8)C13	1.7 (44)	16.9 (430)	3.9 (100)
E21D10M	100-240	16/1	0U MID	IEC 60309 2P+E 6h 16A (IP44)	0	3.7	21	 (18)C13  (3)C19	58.6 (1490)	2.1 (55)	2.0 (53)
E24D12M	200-240/ 346-415, WYE	16/3	0U MID	IEC 60309 3P+N+E 6h 16A (IP44)	0	11	24	 (21)C13  (3)C19	58.6 (1490)	2.1 (55)	2.0 (53)
E24D03M	100-240	32/1	0U MID	IEC 60309 2P+E 6h 32A (IP44)	2	7.4	24	 (20)C13  (4)C19	58.6 (1490)	2.1 (55)	2.0 (53)
E36D01M	200-240/ 346-415, WYE	32/3	0U FULL	IEC 60309 3P+N+E 6h 32A (IP44)	6	22	36	 (24)C13  (12)C19	68.8 (1750)	2.1 (55)	2.0 (53)
E42D06M	100-240	32/1	0U FULL	IEC 60309 2P+E 6h 32A (IP44)	2	7.4	42	 (36)C13  (6)C19	68.8 (1750)	2.1 (55)	2.0 (53)

MONITORED SWITCHED – MS SERIES

Part Number	Input Voltage, VAC	Input Current per Phase, Amps/P	Form Factor	Input Plug Type	Circuit Breakers	Apparent Power (kVA)	Outlet Count	Outlet Configuration	Length In. (mm)	Width In. (mm)	Depth In. (mm)
E24E04M	100-240	16/1	0U FULL	IEC 60309 2P+E 6h 16A (IP44)	0	3.7	24	 (20)C13  (4)C19	68.8 (1750)	2.1 (55)	2.6 (68)
E24E02M	100-240/ 346-415, WYE	16/3	0U FULL	IEC 60309 3P+N+E 6h 16A (IP44)	0	11	24	 (18)C13  (6)C19	68.8 (1750)	2.1 (55)	2.6 (68)
E32E06M	100-240	32/1	0U FULL	IEC 60309 2P+E 6h 32A (IP44)	2	7.4	32	 (24)C13  (8)C19	68.8 (1750)	2.1 (55)	2.6 (68)
E24E03M	100-240/ 346-415, WYE	32/3	0U FULL	IEC 60309 3P+N+E 6h 32A (IP44)	6	22	24	 (18)C13  (6)C19	68.8 (1750)	2.1 (55)	2.6 (68)





MONITORED PER OUTLET – MPO SERIES

Part Number	Input Voltage, VAC	Input Current per Phase, Amps/P	Form Factor	Input Plug Type	Circuit Breakers	Apparent Power (kVA)	Outlet Count	Outlet Configuration	Length In. (mm)	Width In. (mm)	Depth In. (mm)
E24F09M	100-240	16/1	0U FULL	IEC 60309 2P+E 6h 16A (IP44)	0	3.7	24	 (20)C13  (4)C19	68.8 (1750)	2.1 (55)	2.6 (68)
E36F12M	100-240/ 346-415, WYE	16/3	0U FULL	IEC 60309 3P+N+E 6h 16A (IP44)	0	11	36	 (30)C13  (6)C19	68.8 (1750)	2.1 (55)	2.6 (68)









ES2P Power Distribution Unit (PDU)

PRODUCT SPECIFICATIONS (CONTINUED)

MONITORED PER OUTLET – MPO SERIES (CONTINUED)

Part Number	Input Voltage, VAC	Input Current per Phase, Amps/P	Form Factor	Input Plug Type	Circuit Breakers	Apparent Power (kVA)	Outlet Count	Outlet Configuration	Length In. (mm)	Width In. (mm)	Depth In. (mm)
E24F06M	100-240	32/1	0U FULL	IEC 60309 2P+E 6h 32A (IP44)	2	7.4	24	 (20)C13  (4)C19	68.8 (1750)	2.1 (55)	2.6 (68)
E24F08M	100-240/ 346-415, WYE	32/3	0U FULL	IEC 60309 3P+N+E 6h 16A (IP44)	6	22	24	 (18)C13  (6)C19	68.8 (1750)	2.1 (55)	2.6 (68)

MONITORED SWITCHED PER OUTLET – MSPO SERIES

Part Number	Input Voltage, VAC	Input Current per Phase, Amps/P	Form Factor	Input Plug Type	Circuit Breakers	Apparent Power (kVA)	Outlet Count	Outlet Configuration	Length In. (mm)	Width In. (mm)	Depth In. (mm)
E24G11M	100-240	16/1	0U FULL	IEC 60309 2P+E 6h 16A (IP44)	0	3.7	24	 (20)C13  (4)C19	68.8 (1750)	2.1 (55)	2.6 (68)
E24G07M	100-240/ 346-415, WYE	16/3	0U FULL	IEC 60309 3P+N+E 6h 16A (IP44)	0	11	24	 (18)C13  (6)C19	68.8 (1750)	2.1 (55)	2.6 (68)
E24G06M	100-240	32/1	0U FULL	IEC 60309 2P+E 6h 32A (IP44)	2	7.4	24	 (20)C13  (4)C19	68.8 (1750)	2.1 (55)	2.6 (68)
E24G08M	100-240/ 346-415, WYE	32/3	0U FULL	IEC 60309 3P+N+E 6h 32A (IP44)	6	22	24	 (18)C13  (6)C19	68.8 (1750)	2.1 (55)	2.6 (68)

ACCESSORIES

Part Number	Description	QTY
ENV01	Temperature & Humidity Sensor	1
PWRCRD1	IEC C19 to IEC 60309 2P+E 6h 16A (IP44)	1
PWRCRD2	IEC C19 to SCHUKO CEE 7	1



For more information and support, visit www.panduit.com/pdu/apac

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