

# EL2P Intelligent Power Distribution Unit (iPDU)

## SPECIFICATIONS

The EL2P iPDU is not only a power distribution unit and energy monitoring device — it is a game-changer for your data center. These cutting-edge iPDUs shall continuously monitor power and environmental conditions at the rack or cabinet level, ensuring your critical IT equipment is always protected from electrical circuit overloads and adverse environmental factors.

With the EL2P iPDUs, you get comprehensive and precise energy measurement data that empowers you to optimize power usage, make informed capacity planning decisions, enhance uptime and measure PUE (power usage effectiveness). Plus, they support green data center initiatives to help you save energy and money while driving sustainability.

Choosing the right IT equipment is crucial for a safe and efficient data center operation. Our EL2P iPDUs, environmental sensors and dual locking power cords provide the ideal solution for your mission-critical data center needs.

## TECHNICAL INFORMATION

Attributes:	Width in. (mm)	Depth in. (mm)	Height in. (mm)
<b>OU FULL:</b>	2 (52)	2.1 (53)	69 (1750)
<b>OU FULL Wide:</b>	3.3 (85)	2.1 (53)	69 (1750)
<b>Mounting:</b>	Vertical units provide up to 48 outlets without encroaching on the EIA space.		

## KEY FEATURES AND BENEFITS

<b>Intuitive touch screen:</b>	The integrated touchscreen on the PDU allows the user to simplify the interaction with the local display.
<b>Integrated accelerometer:</b>	Enables the local display to automatically rotate to accommodate both top fed and bottom fed application
<b>Combination outlets<sup>1</sup>:</b>	Combination outlets provide the ultimate in flexibility by allowing a customer to use an outlet as either an C13/C15 outlet or a C13/C15/C19/C21 outlet respectively. All combination outlets also accept the Panduit dual locking power cords to eliminate accidental disconnects.
<b>Dual rated PDUs:</b>	Simplify your supply chain by selecting a Dual Rated PDU. Dual rated PDUs have ratings and NRTL approvals for both North American & EMEA on the same part number.
<b>HotSwappable controller:</b>	Replace the controller and display module without having to power down the rack
<b>Redundant network access:</b>	Specifically designed for landlord/tenant (Co-Lo's) allowing for remote access of real-time, vital statistics and operating information on two separate, secure networks
<b>Hardened security:</b>	<a href="#">USGv6 Certified IPV6 Stack</a> , secure supply chain with code signing, <b>802.1x MIL Grade Security</b> , cyber security approvals to <b>IEC 62443-4-2</b> and <b>UL 2900-1 standards</b> .
<b>Dual 1GB Ethernet:</b>	Reduces deployment time by auto-negotiating with data center level network switches and can daisy chain up to 64 iPDUs on a single IP address using only one network switch port
<b>Plug &amp; play sensors:</b>	Digital sensors not only allow for multiple sensors on the same bus; but also identify themselves to the controller to simplify setup and commissioning
<b>Multi-color PDUs:</b>	Different color PDUs simplify power feed identification in redundant power schemes. Available under the configured to order program.
<b>Mobile &amp; desktop friendly web GUI:</b>	Enhanced web interface that detects the type of device that you are on (laptop, tablet, or smart phone); and automatically adjusts the screen for an optimal experience
<b>Outlet density:</b>	Meets demands of densely packed IT equipment in rack or cabinet space
<b>Form factor:</b>	Optimal form factor enables efficient rack space utilization and airflow
<b>Operating temperature:</b>	140°F (60°C) ambient at full load for operational reliability in high temperature areas



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## KEY FEATURES AND BENEFITS (CONTINUED)

<b>Circuit breakers:</b>	Protects data center equipment for increased reliability by interrupting potentially hazardous circuit over-current conditions
<b>Color coded circuits<sup>2</sup>:</b>	Easily identify phase to outlet banks to aid in fault isolation or load balancing
<b>External chassis ground:</b>	Meets NEC requirements and installation guidelines for IT equipment
<b>Load balancing:</b>	Monitored through visual display on easy to read touch display (for three-phase units only)
<b>Multiple input plug options:</b>	A full breadth offering to seamlessly interoperate with existing building power wiring schemes
<b>Multiple mounting options:</b>	Enables simple out of the box commissioning and flexibility with Panduit cabinets and industry standard mounting features enabling installation into third party cabinets
<b>Mounting buttons:</b>	Allows tool-less mounting of rack PDUs for faster installations on vertical 0U units
<b>Supported metering:</b>	Frequency, VA, PF, plus aggregate and per phase Amperage, Voltage, Wattage, and Kilowatts per hour

<sup>1</sup>Applies to products outfitted with combination outlets

<sup>2</sup>Applies to products outfitted with circuit breakers

## iPDU PRODUCT FAMILIES

<b>MI Series:</b>	Rack PDUs that have the ability for aggregate power monitoring to quickly identify potential power issues, and reclaim available or under-utilized power capacity.
<b>MS Series:</b>	Rack PDUs that 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 restrict unauthorized use of individual outlets.
<b>MPO Series:</b>	Rack PDUs that 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.
<b>MSPO Series:</b>	Rack PDUs that 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 SPECIFICATIONS

<b>Input voltage:</b>	<b>North America</b> <ul style="list-style-type: none"><li>• Single-Phase 208 V</li><li>• Three-Phase Delta 208 V</li><li>• Three-Phase Wye 208 V</li><li>• Three-Phase WYE 240/415 V</li></ul>	<b>International Models</b> <ul style="list-style-type: none"><li>• Single-Phase 230 V</li><li>• Three-Phase Wye 230/400 V</li></ul>
<b>Input current (per phase):</b>	<b>North America</b> <ul style="list-style-type: none"><li>• 20A, 30A, 50A, 60A</li></ul>	<b>International Models</b> <ul style="list-style-type: none"><li>• 16A, 32A, 63A</li></ul>
<b>Input power:</b>	<b>North America</b> <ul style="list-style-type: none"><li>• 5 to 34.6 (kVA)</li></ul>	<b>International Models</b> <ul style="list-style-type: none"><li>• 7.4 to 43.5 (kVA)</li></ul>
<b>Input frequency:</b>	50/60 Hz	
<b>Output voltage:</b>	208 to 240 VAC	
<b>Maximum output current (outlet):</b>	IEC C13: 10A IEC C19: 16A	
<b>Overload protection (where applicable):</b>	Circuit breakers, hydraulic magnetic	

10 kAIC Circuit Breakers for all 415 V models for North America

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## GENERAL SPECIFICATIONS

<b>Temperature (operating):</b>	50°F to 140°F (10°C to 60°C)		
<b>Temperature (storage):</b>	-4°F to 140°F (-20°C to 60°C)		
<b>Relative humidity (operating):</b>	10% to 90% non-condensing		
<b>Relative humidity (non-operating):</b>	5% to 95% RH		
<b>Relative humidity (storage):</b>	5% to 95%		
<b>Elevation (operating):</b>	0 to 10,000 ft. (0 to 3000m)		
<b>Elevation (storage):</b>	0 to 30,000 ft. (0 to 9144m)		
<b>Conformance (standards):</b>	<b>NRTL Nemko</b> Certificate: NA202011186 USA & Canada: Approved – Harmonized Standard UL/EN/IEC 62368 PDU Mexico: NOM Approved <sup>3</sup> Europe: <b>CE/UKCA Approved</b> <sup>3</sup> Australia: RCM Approved <sup>3</sup>	Brazil: Approved Chile: Approved Peru: Approved Uruguay: Approved Costa Rica: Approved United Arab Emirates (UAE): Approved	India: Approved China: Approved Hong Kong: Approved Singapore: Approved Indonesia: Approved Philippines: Approved
<b>Environmental compliances:</b>	RoHS & REACH		

<sup>3</sup>Applies to select products

## CABINET COMPATIBILITY

Intelligent PDUs 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). They 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.

# EL2P Intelligent Power Distribution Unit (iPDU)

## MI SERIES

Part Number	Region	Input Current (A) Per Phase	Form Factor	Input Plug Type	# of CB's	Apparent Power (kVA)	Outlet Count	Outlet Type	Input Phase	Height in. (mm)	Width in. (mm)	Depth in. (mm)	PDU Type	
E42D20L	NA	60	0U FULL	IEC 60309 3P+E 9h 60A (IP44)	6	17.3	42	(21)C13/C15, (21)C13/C15/C19/C21	3	70 (1780)	2 (58)	3 (75)	MI	
E42D22L		50		CS8365		14.4								
E48D31L	NA/ EMEA	63/60	0U WIDE	IEC 60309 3P+N+E 6h 63A/60A (IP44)	12	34.6/43.5	48	(24)C13/C15, (24)C13/C15/C19/C21		65 (1640)	3 (85)			
E36D25L	NA	30	0U FULL	NEMA L6-30P	2	5	36	(18)C13/C15, (18)C13/C15/C19/C21	1	70 (1780)	2 (58)			
E42D06L	EMEA	32		IEC 60309 2P+E 6h 32A (IP44)	3	7.4	42	(21)C13/C15, (21)C13/C15/C19/C21						
E36D06L					2		36	(18)C13/C15, (18)C13/C15/C19/C21						
E48D22L	NA	30		NEMA L15-30P	3	8.6	48	(24)C13/C15, (24)C13/C15/C19/C21						
E42D42L	EMEA	16		IEC 60309 3P+N+E 6h 16A (IP44)	0	11	42	(21)C13/C15, (21)C13/C15/C19/C21						
E48D21L	NA	30		NEMA L21-30P	3	8.6	48	(24)C13/C15, (24)C13/C15/C19/C21						
E36D28L							36	(18)C13/C15, (18)C13/C15/C19/C21						
E48D20L	NA/ EMEA	32/30		IEC 60309 3P+N+E 6h 32A/30A (IP44)	6	17.3/22.0	48	(24)C13/C15, (24)C13/C15/C19/C21	3					
E42D07L	NA	30		NEMA L22-30P			42	(21)C13/C15, (21)C13/C15/C19/C21						
E48D23L	NA/ EMEA	20/16		IEC 60309 3P+N+E 6h 20A/16A (IP44)	0	11.0/11.5	48	(24)C13/C15, (24)C13/C15/C19/C21						2 (55)
E42D04L	EMEA	32		IEC 60309 3P+N+E 6h 32A (IP44)	6	22	42	(21)C13/C15, (21)C13/C15/C19/C21						3 (75)

\*Custom parts available under the Engineered To Order (ETO) program. Contact techsupport@panduit.com for ETO terms and conditions.

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## MS SERIES

Part Number	Region	Input Current (A) Per Phase	Form Factor	Input Plug Type	# of CB's	Apparent Power (kVA)	Outlet Count	Outlet Type	Input Phase	Height in. (mm)	Width in. (mm)	Depth in. (mm)	PDU Type
E42E24L	NA	60	0U FULL	IEC 60309 3P+E 9h 60A (IP44)	6	17.3	42	(21)C13/C15, (21)C13/C15/C19/C21	3	70 (1780)	2 (58)		
E42E26L		50		CS8365		14.4							
E48E25L	NA/ EMEA	63/60	0U WIDE	IEC 60309 3P+N+E 6h 63A/60A (IP44)	12	34.6/43.5	48	(24)C13/C15, (24)C13/C15/C19/C21		65 (1640)	3 (85)		
E42E07L	EMEA	32	0U FULL	IEC 60309 2P+E 6h 32A (IP44)	3	7.4	42	(21)C13/C15, (21)C13/C15/C19/C21	1	70 (1780)	2 (58)	3 (75)	MS
E48E22L	NA	30		NEMA L15-30P		8.6							
E48E21L				NEMA L21-30P									
E48E20L	NA/ EMEA	32/30		IEC 60309 3P+N+E 6h 32A/30A (IP44)	6	17.3/22.0	48	(24)C13/C15, (24)C13/C15/C19/C21	3				
E48E23L		20/16		IEC 60309 3P+N+E 6h 20A/16A (IP44)	0	11.0/11.5							
E36E09L	EMEA	32	IEC 60309 3P+N+E 6h 32A (IP44)	6	22	36	(18)C13/C15, (18)C13/C15/C19/C21						

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## MPO SERIES

Part Number	Region	Input Current (A) Per Phase	Form Factor	Input Plug Type	# of CB's	Apparent Power (kVA)	Outlet Count	Outlet Type	Input Phase	Height in. (mm)	Width in. (mm)	Depth in. (mm)	PDU Type
E36F13L	EMEA	32	0U FULL	IEC 60309 3P+N+E 6h 32A (IP44)	6	22	36	(18)C13/C15, (18)C13/C15/C19/C21	3	70 (1780)	2 (58)	3 (75)	MPO

\*Standard MPO parts carry a MOQ of 10.

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## MSPO SERIES

Part Number	Region	Input Current (A) Per Phase	Form Factor	Input Plug Type	# of CB's	Apparent Power (kVA)	Outlet Count	Outlet Type	Input Phase	Height in. (mm)	Width in. (mm)	Depth in. (mm)	PDU Type						
E42G20L	NA	60	0U FULL	IEC 60309 3P+E 9h 60A (IP44)	6	17.3	42	(21)C13/C15, (21)C13/C15/C19/C21	3	70 (1780)	2 (58)	3 (75)	MSPO						
E42G22L		50		CS8365		14.4			3										
E42G02L		60		IEC 60309 2P+E 6h 60A (IP44)		10			1										
E42G05L	NA/ EMEA	32/30		IEC 60309 3P+N+E 6h 32A/30A (IP44)	3	17.3/22.0			3					1					
E42G06L		20/16		IEC 60309 3P+N+E 6h 20A/16A (IP44)		11.0/11.5													
E36G31L	NA	60		IEC 60309 3P+E 9h 60A (IP44)	6	17.3			36					(18)C13/C15, (18)C13/C15/C19/C21					
E36G30L		50		CS8365		14.4													
E42G03L	NA/ EMEA	32/30		IEC 60309 2P+E 6h 32A/30A (IP44)	3	7.4/5.0			42					(21)C13/C15, (21)C13/C15/C19/C21	1	70 (1780)	2 (58)	3 (75)	MSPO
E36G18L	NA	30		NEMA L6-30P	2	5			36					(18)C13/C15, (18)C13/C15/C19/C21					
E48G01L	NA/ EMEA	63/60		0U WIDE	IEC 60309 3P+N+E 6h 63A/60A (IP44)	12			34.6/43.5					48	(24)C13/C15, (24)C13/C15/C19/C21	3	70 (1780)	3 (85)	MSPO
E42G04L	NA	30	0U FULL	NEMA L15-30P	3	8.6	42	(21)C13/C15, (21)C13/C15/C19/C21											
E48G32L				48			(24)C13/C15, (24)C13/C15/C19/C21												
E48G31L								NEMA L21-30P											
E36G20L		50		CS8365	10	36	(18)C13/C15, (18)C13/C15/C19/C21												
E36G19L		30		NEMA L21-30P	8.6														
E48G04L				NA	30	NEMA L22-30P	6	17.3	48	(24)C13/C15, (24)C13/C15/C19/C21									
E36G33L	NA/ EMEA	32/30	IEC 60309 3P+N+E 6h 32A/30A (IP44)	6	17.3/22.0	36	(18)C13/C15, (18)C13/C15/C19/C21												

# EL2P Intelligent Power Distribution Unit (iPDU)

## MSPO SERIES (CONTINUED)

Part Number	Region	Input Current (A) Per Phase	Form Factor	Input Plug Type	# of CB's	Apparent Power (kVA)	Outlet Count	Outlet Type	Input Phase	Height in. (mm)	Width in. (mm)	Depth in. (mm)	PDU Type
E48G30L	NA/ EMEA	32/30	0U FULL	IEC 60309 3P+N+E 6h 32A/30A (IP44)	6	17.3/22.0 17.3/22.0	48	(24)C13/ C15, (24) C13/C15/ C19/C21	3	70 (1780)	2 (58)	3 (75)	MSPO
E36G32L		20/16		IEC 60309 3P+N+E 6h 20A/16A (IP44)	3	11.5/11.0	36	(18)C13/ C15, (18) C13/C15/ C19/C21					
E48G33L					0	11.0/11.5	48	(24)C13/ C15, (24) C13/C15/ C19/C21					

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## EL2P ACCESSORIES

Part Number	Description
CNT05	Panduit EL2P iPDU Controller – Vertical
CNT06	Panduit EL2P Wireless iPDU Controller – Vertical
EA001 or EA001L	Temperature Sensor
EB001 or EB001L	Temperature and Humidity Sensor
EC001 or EC001L	3 Temperature and Humidity Sensor
ACA01 or ACA01L	Door Switch Sensor
ACC01 or ACC01L	Dry Contact Input Sensor
ACD01L	Light Strip Sensor
ED001 or ED001L	Rope Fluid Leak Sensor
EG001 or EG001L	Rope Fluid Leak Extension Cable
EE001 or EE001L	Spot Fluid Leak Sensor
ACF10 or EHH01L	Temperature and Door Sensor
ACF11 or EHC01L	3 Temperature, Humidity and Door Sensor
EF001L or EF001L	3 Sensor Hub
BRK02	Panduit EL2P Sensor HUB mounting bracket
ACF06 or ACF06L	Panduit Smart Rack Handle with Integral Humidity Sensor and Keypad
ACF05	Panduit Smart Rack Handle with Integral Humidity Sensor



For more information and support,  
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