



Best in Class Outlet Density

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Optimal Form Factors

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Superior Reliability

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Smartzone™ G5

# iPDU Pocket Guide

NORTH AMERICA

**PANDUIT**®

infrastructure for a connected world



### Quality & Reliability

3-Year standard & 5-Year extended warranty.



### High Temp

Built with high-temperature grade premium components to withstand 60°C high temperature at full load for extended period to provide high quality and reliability.



### High Density Power

Unique outlets design for high power density & compact form-factors minimizing cabinet space.



### HotSwappable & Upgradable

Hot-Swappable Controller with large OLED display and high contrast ratio.



### Hardened Security

Enhanced security w/ (SNMPv3 & RESTful/TLS) with certificate-based advanced asymmetric encryption, validated and hardened with multiple security scanning tools.



### 1G Redundant Network Access

High Networking speed (1G) and with Redundant Network Access (RNA) for connectivity redundancy or for allowing separate Colo/Tenant Network connectivity.



### Real-Time Monitor

Real-time Monitoring of Power, Environmental & Physical Access Security.



### Environmental Plug and Play Sensors

Variety of Plug and Play Environment & Access Security accessories thru U-Ports.



### Multi-Device WebGUI

Enhanced User-Experience w/ BYOD WebGUI & colored PDU, cords & cable ties.



### Multi-Color

A variety of colored PDU chassis, power cords & cable ties.

### Monitored Input (MI Series)

Rack PDUs that have the ability for aggregate power monitoring to quickly identify potential power issues, and reclaim available or under-utilized power capacity.

### Monitored Switched (MS Series)

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.

### Monitored Per Outlet (MPO Series)

Rack PDUs that have the ability for outlet level 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.

### Monitored Switched Per Outlet (MSPO Series)

Rack PDUs that have the ability for outlet level 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.

### Accessories

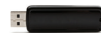
Offering a variety of Environmental Sensors; Security Devices; and Power Cords.

**Hot Swappable Network Module**  
With Large OLED and graphic bars for easy Phases Load Balancing



**1G Redundant Network Access (RNA)**  
In 2N configuration for network redundancy or CoLo/Tenant use

**USB Port**  
FW Upgrade, rack light strip



**Power and Energy Metering**  
V, A, VA, W, KWh, PF

**Color Coded Outlets and Circuit Breakers**  
For easy source Identification

**High Density**  
Outlet configuration allows full length SKU's fit within 42U rack with top, bottom, or front exit cable

**Low Profile Design**  
Industry leading design saves rack space and ensures good access

**Best-in-Class Billing Grade Accuracy**  
+/- 1% throughout entire range of operational spec

**Designed for High Temperature**  
Safe, Reliable Operation at 60°C with Full Load Rating



**Daisy Chain Capabilities**  
Up to 4 PDUs  
And 32 sensors



**Environmental & Security**  
Ready with support for up to 8 digital plug-and-play sensors or proximity card access

**Premium Hydraulic-Magnetic Circuit Breakers**  
Stable trip characteristics at extreme temperatures

**Locking IEC Outlets**  
Provide secure power connection with optional locking cords or integrated locking features

# Product Features

## Product Features

### Design Features

- Low profile, space saving design
- Ultra low profile circuit breakers on most models
- Adjustable tool-less mounting system
- Color-coded receptacles
- Locking IEC receptacles and locking power cord compatible

### PDU Power Metering and Monitoring

- PDU level watt-hour power metering (kWh)
- PDU level power measurements (W)
- Input Phase level power measurements (V, A, VA, kWh, pf)
- Circuit breaker level current measurements
- High-accuracy, billing-grade metering capabilities
- Embedded memory log to record/view/report historical data
- User customizable alarm thresholds & notifications

### Outlet Level Switching

- Remote On/Off power control by individual outlet
- User-defined power-on time delay to sequence IT equipment
- Automatic sequencing to avoid inrush current overload
- Controlled with assignable roles and user access

### Outlet Level Power Metering

- Outlet level watt-hour power metering (kWh)
- Outlet level power measurements (V, A, VA, W, pf)
- Outlet level information for Green Grid Level 3 PUE Calculations

### Environmental Management

- Optional Plug & Play environmental sensors including temperature, humidity, and water leak

### Physical Security Management

- Rack access monitoring with door contact switch
- User customizable alarm thresholds and notifications
- Dry Contact accessory to activate strobe, beacon or fan

### Network Management and Local Display Interface

- Large OLED display with high contrast ratio, easy to navigate menu and visual graphic bars for phases load balancing
- Full featured network management and alerting capabilities supporting HTTP, HTTPS, SSH, Telnet, SNMP, FTP and email
- Strong encryption, passwords, and advanced authorization options including local permissions, LDAP/S, and Active Directory
- Daisy Chain up to 4 Rack PDUs and 24 environmental sensors through a single IP address

### Circuit Breaker Status and Branch Circuit Monitoring































Monitored Input (MI)	Monitored Switched (MS)	Monitored per Outlet (MPO)	Monitored & Switched per Outlet (MSP0)
●	●	●	●
●	●	●	●
	●		●
		●	●
●	●	●	●
●	●	●	●
●	●	●	●
●	●	●	●

## Monitored Input (MI Series)

	Input Current per phase	Form Factor	Input Plug Type	Apparent Power (kVA)	Outlet Count	Outlet Configuration	Height (inches)	Width (inches)	Depth (inches) at Outlet position	Panduit SKU Part No.
	100-240VAC, 1-Phase	15	1U	5-15P	1.4	8	Ⓢ (8)5-20R	1.7	17.5	10.6
20		1U	5-20P	1.9	8	Ⓢ (8)5-20R	1.7	17.5	10.6	P08D10M
20		1U	L5-20P	1.9	8	Ⓢ (8)5-20R	1.7	17.5	10.6	P08D11M
20		1U	L6-20P	3.3	12	Ⓢ (12)C13	1.7	17.5	10.6	P12D13M
50		1U	CS8265C	8.3	6	Ⓢ (6)C19	1.7	17.5	10.6	P06D15M
30		2U	L5-30P	2.9	16	Ⓢ (16)5-20R	3.4	17.5	10.6	P16D12M
30		2U	L6-30P	5.0	16	Ⓢ (12)C13, Ⓢ (4)C19	3.4	17.5	10.6	P16D14M
15		0U HALF	5-15P	1.4	16	Ⓢ (16)5-20R	32.2	2.0	2.1	P16D20M
20		0U HALF	5-20P	1.9	16	Ⓢ (16)5-20R	32.2	2.0	2.1	P16D21M
20		0U HALF	L5-20P	1.9	16	Ⓢ (16)5-20R	32.2	2.0	2.1	P16D22M
20		0U MID	L6-20P	3.3	24	Ⓢ (20)C13, Ⓢ (4)C19	58.7	2.0	2.1	P24D24M
30		0U MID	L5-30P	2.9	24	Ⓢ (24)5-20R	58.7	2.0	2.1	P24D23M
30		0U MID	L6-30P	5.0	24	Ⓢ (20)C13, Ⓢ (4)C19	58.7	2.0	2.1	P24D07M
30		0U FULL	L6-30P	5.0	38	Ⓢ (32)C13, Ⓢ (6)C19	68.9	2.0	2.1	P38D25M
50		0U FULL	CS8265C	8.3	36	Ⓢ (30)C13, Ⓢ (6)C19	68.9	2.0	2.1	P36D26M

## Monitored Input (MI Series)

	Input Current per phase	Form Factor	Input Plug Type	Apparent Power (kVA)	Outlet Count
208 VAC, 3-Phase	30	1U	L15-30P	8.6	6
	30	1U	L21-30P	8.6	6
	50	1U	CS8365C	14.4	6
	60	1U	IEC 60309-460P9	17.3	6
	30	0U MID	L15-30P	8.6	24
	30	0U MID	L21-30P	8.6	24
	30	0U FULL	L21-30P	8.6	30
	30	0U FULL	L15-30P	8.6	36
	30	0U FULL	L21-30P	8.6	38
	50	0U FULL	CS8365C	10.0	36
	50	0U FULL	CS8365C	14.4	24
	60	0U FULL	IEC 60309-460P9	17.3	24
	50	0U HALF - 2 sided	CS8365C	14.4	24
	60	0U HALF - 2 sided	IEC 60309-460P9	17.3	24
	50	0U FULL - 2 sided	CS8365C	14.4	48
	60	0U FULL - 2 sided	IEC 60309-460P9	17.3	48

Outlet Configuration	Height (inches)	Width (inches)	Depth (inches) at Outlet position	Panduit SKU Part No.
 (6)C19	1.7	17.5	10.6	P06D16M
 (6)C19	1.7	17.5	10.6	P06D17M
 (6)C19	1.7	17.5	10.6	P06D18M
 (6)C19	1.7	17.5	10.6	P06D19M
 (18)C13,  (6)C19	58.7	2.0	2.1	P24D27M
 (18)C13,  (6)C19	58.7	2.0	2.1	P24D01M
 (18)C13,  (6)C19,  (6)5-20R	68.9	2.0	2.1	P30D02M
 (30)C13,  (6)C19	68.9	2.0	2.1	P36D08M
 (30)C13,  (6)C19,  (2)5-20R	68.9	2.0	2.1	P38D28M
 (30)C13,  (6)C19	68.9	2.0	2.1	P36D29M
 (12)C13,  (12)C19	68.9	2.0	2.1	P24D31M
 (12)C13,  (12)C19	68.9	2.0	2.1	P24D34M
 (18)C13,  (6)C19	36.0	2.0	4.4	P24D30M
 (18)C13,  (6)C19	36.0	2.0	4.4	P24D33M
 (36)C13,  (12)C19	71.7	2.0	4.4	P48D32M
 (36)C13,  (12)C19	71.7	2.0	4.4	P48D35M

# Monitored Switched (MS Series)

	Input Current per phase	Form Factor	Input Plug Type	Apparent Power (kVA)	Outlet Count	Outlet Configuration	Height (inches)	Width (inches)	Depth (inches) at Outlet position	Panduit SKU Part No.
100-240VAC, 1-Phase	15	1U	5-15P	1.4	8	Ⓢ (8)5-20R	1.7	17.5	10.6	P08E14M
	20	1U	5-20P	1.9	8	Ⓢ (8)5-20R	1.7	17.5	10.6	P08E15M
	20	1U	L5-20P	1.9	8	Ⓢ (8)5-20R	1.7	17.5	10.6	P08E16M
	20	1U	L6-20P	3.3	8	Ⓢ (8)C13	1.7	17.5	10.6	P08E18M
	30	2U	L5-30P	2.9	16	Ⓢ (16)5-20R	3.4	17.5	10.6	P16E17M
	30	2U	L6-30P	5.0	16	Ⓢ (12)C13, Ⓢ (4)C19	3.4	17.5	10.6	P16E19M
	15	0U HALF	5-15P	1.4	12	Ⓢ (12)5-20R	36.1	2.0	2.1	P12E20M
	20	0U HALF	5-20P	1.9	12	Ⓢ (12)5-20R	36.1	2.0	2.1	P12E21M
	20	0U HALF	L5-20P	1.9	12	Ⓢ (12)5-20R	36.1	2.0	2.1	P12E22M
	20	0U HALF	L6-20P	3.3	16	Ⓢ (12)C13, Ⓢ (4)C19	36.1	2.0	2.1	P16E24M
	30	0U MID	L5-30P	2.9	18	Ⓢ (18)5-20R	58.7	2.0	2.1	P18E23M
	30	0U FULL	L6-30P	5.0	24	Ⓢ (20)C13, Ⓢ (4)C19	68.9	2.0	2.1	P24E28M
30	0U FULL	L6-30P	5.0	36	Ⓢ (30)C13, Ⓢ (6)C19	68.9	2.0	2.1	P36E33M	
208VAC, 3-Phase	30	0U FULL	L15-30P	8.6	24	Ⓢ (18)C13, Ⓢ (6)C19	68.9	2.0	2.1	P24E29M
	30	0U FULL	L15-30P	8.6	36	Ⓢ (30)C13, Ⓢ (6)C19	68.9	2.0	2.1	P36E34M
	30	0U FULL	L21-30P	8.6	24	Ⓢ (18)C13, Ⓢ (6)C19	68.9	2.0	2.1	P24E30M
	30	0U FULL	L21-30P	8.6	36	Ⓢ (30)C13, Ⓢ (6)C19	68.9	2.0	2.1	P36E35M
	50	0U FULL	CS8365C	14.4	24	Ⓢ (12)C13, Ⓢ (12)C19	68.9	2.0	2.1	P24E31M
	50	0U FULL	CS8365C	10.0	36	Ⓢ (30)C13, Ⓢ (6)C19	68.9	2.0	2.1	P36E12M
	60	0U FULL	IEC 60309-460P9	17.3	24	Ⓢ (12)C13, Ⓢ (12)C19	68.9	2.0	2.1	P24E32M
	60	0U FULL - 2 sided	IEC 60309-460P9	17.3	48	Ⓢ (36)C13, Ⓢ (12)C19	71.7	2.0	4.4	P48E13M

## Monitored Per Outlet (MPO Series)

	Input Current per phase	Form Factor	Input Plug Type	Apparent Power (kVA)	Outlet Count	Outlet Configuration	Height (inches)	Width (inches)	Depth (inches) at Outlet position	Panduit SKU Part No.
100-240VAC, 1-Phase	30	OU FULL	NEMA L6-30P	5.0	24	(20)C13, (4)C19	68.9	2.0	2.1	P24F01M
	30	OU FULL	NEMA L6-30P	5.0	36	(30)C13, (6)C19	68.9	2.0	2.1	P36F15M
208VAC, 3-Phase	30	OU FULL	NEMA L15-30P	8.6	24	(18)C13, (6)C19	68.9	2.0	2.1	P24F02M
	30	OU FULL	NEMA L21-30P	8.6	24	(18)C13, (6)C19	68.9	2.0	2.1	P24F03M
	30	OU FULL	NEMA L15-30P	8.6	36	(30)C13, (6)C19	68.9	2.0	2.1	P36F16M
	30	OU FULL	NEMA L21-30P	8.6	36	(30)C13, (6)C19	68.9	2.0	2.1	P36F17M
	50	OU FULL	Hubbell CS8365C	14.4	24	(12)C13, (12)C19	68.9	2.0	2.1	P24F04M
	50	OU FULL	Hubbell CS8365C	10.0	36	(30)C13, (6)C19	68.9	2.0	2.1	P36F18M
	60	OU FULL	IEC 60309 3P+E 9h 60A	17.3	24	(12)C13, (12)C19	68.9	2.0	2.1	P24F05M
	60	OU FULL - 2 sided	IEC 60309 3P+E 9h 60A	17.3	48	(36)C13, (12)C19	71.7	2.0	4.4	P48F19M

## Monitored & Switched Per Outlet (MSPO Series)

100-240VAC, 1-Phase	30	OU FULL	L6-30P	5.0	24	(20)C13, (4)C19	68.9	2.0	2.1	P24G01M
	30	OU FULL	L6-30P	5.0	36	(30)C13, (6)C19	68.9	2.0	2.1	P36G18M
208VAC, 3-Phase	30	OU FULL	L15-30P	8.6	24	(18)C13, (6)C19	68.9	2.0	2.1	P24G02M
	30	OU FULL	L15-30P	8.6	36	(30)C13, (6)C19	68.9	2.0	2.1	P36G22M
	30	OU FULL	L21-30P	8.6	24	(18)C13, (6)C19	68.9	2.0	2.1	P24G03M
	30	OU FULL	L21-30P	8.6	36	(30)C13, (6)C19	68.9	2.0	2.1	P36G19M
	50	OU FULL	CS8365C	14.4	24	(12)C13, (12)C19	68.9	2.0	2.1	P24G04M
	50	OU FULL	CS8365C	10.0	36	(30)C13, (6)C19	68.9	2.0	2.1	P36G20M
	60	OU FULL	IEC 60309-460P9	17.3	24	(12)C13, (12)C19	68.9	2.0	2.1	P24G05M
	60	OU FULL - 2 sided	IEC 60309-460P9	17.3	48	(36)C13, (12)C19	71.7	2.0	4.4	P48G21M



# Accessories

## W-Lock & V-Lock Compatible Locking Power Cords (UL, CE, VDE, TUV Approved)

Color	Description	Rated	Gauge / Cross Section Area	Jacket	Connector Angle
Red	IEC C14 to IEC C13	10A/250V	17AWG / 1.0mm <sup>2</sup>	SJT/H05VV-F	Straight
Red	IEC C14 to IEC C13	10A/250V	17AWG / 1.0mm <sup>2</sup>	SJT/H05VV-F	Straight
Red	IEC C14 to IEC C13	10A/250V	17AWG / 1.0mm <sup>2</sup>	SJT/H05VV-F	Straight
Red	IEC C14 to IEC C13	10A/250V	17AWG / 1.0mm <sup>2</sup>	SJT/H05VV-F	Straight
Blue	IEC C14 to IEC C13	10A/250V	17AWG / 1.0mm <sup>2</sup>	SJT/H05VV-F	Straight
Blue	IEC C14 to IEC C13	10A/250V	17AWG / 1.0mm <sup>2</sup>	SJT/H05VV-F	Straight
Blue	IEC C14 to IEC C13	10A/250V	17AWG / 1.0mm <sup>2</sup>	SJT/H05VV-F	Straight
Blue	IEC C14 to IEC C13	10A/250V	17AWG / 1.0mm <sup>2</sup>	SJT/H05VV-F	Straight
Black	IEC C14 to IEC C13	10A/250V	17AWG / 1.0mm <sup>2</sup>	SJT/H05VV-F	Straight
Black	IEC C14 to IEC C13	10A/250V	17AWG / 1.0mm <sup>2</sup>	SJT/H05VV-F	Straight
Black	IEC C14 to IEC C13	10A/250V	17AWG / 1.0mm <sup>2</sup>	SJT/H05VV-F	Straight
Black	IEC C14 to IEC C13	10A/250V	17AWG / 1.0mm <sup>2</sup>	SJT/H05VV-F	Straight

Red	IEC C20 to IEC C19	16A/250V	15AWG / 1.5mm <sup>2</sup>	SJT/H05VV-F	Straight
Red	IEC C20 to IEC C19	16A/250V	15AWG / 1.5mm <sup>2</sup>	SJT/H05VV-F	Straight
Red	IEC C20 to IEC C19	16A/250V	15AWG / 1.5mm <sup>2</sup>	SJT/H05VV-F	Straight
Red	IEC C20 to IEC C19	16A/250V	15AWG / 1.5mm <sup>2</sup>	SJT/H05VV-F	Straight
Blue	IEC C20 to IEC C19	16A/250V	15AWG / 1.5mm <sup>2</sup>	SJT/H05VV-F	Straight
Blue	IEC C20 to IEC C19	16A/250V	15AWG / 1.5mm <sup>2</sup>	SJT/H05VV-F	Straight
Blue	IEC C20 to IEC C19	16A/250V	15AWG / 1.5mm <sup>2</sup>	SJT/H05VV-F	Straight
Blue	IEC C20 to IEC C19	16A/250V	15AWG / 1.5mm <sup>2</sup>	SJT/H05VV-F	Straight
Black	IEC C20 to IEC C19	16A/250V	15AWG / 1.5mm <sup>2</sup>	SJT/H05VV-F	Straight
Black	IEC C20 to IEC C19	16A/250V	15AWG / 1.5mm <sup>2</sup>	SJT/H05VV-F	Straight
Black	IEC C20 to IEC C19	16A/250V	15AWG / 1.5mm <sup>2</sup>	SJT/H05VV-F	Straight
Black	IEC C20 to IEC C19	16A/250V	15AWG / 1.5mm <sup>2</sup>	SJT/H05VV-F	Straight

Length (feet)	Panduit Part No. (1 pc)	Panduit Part No. (10 pk)
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2	LPCA01	LPCA01X
3	LPCA02	LPCA02X
4	LPCA03	LPCA03X
6	LPCA04	LPCA04X
2	LPCA06	LPCA06X
3	LPCA07	LPCA07X
4	LPCA08	LPCA08X
6	LPCA09	LPCA09X
2	LPCA11	LPCA11X
3	LPCA12	LPCA12X
4	LPCA13	LPCA13X
6	LPCA14	LPCA14X

Locking Cable Images C14 to C13



C14

C13



C14

C13



C14

C13

Locking Cable Images IEC C20 to IEC C19



IEC C20

IEC C19



IEC C20

IEC C19



IEC C20

IEC C19

# Accessories

## Environmental Sensors

Description:	Dimensions L x W x H (in)	Length (ft)	Panduit Part No.
Temperature Sensor	1.73x0.83x.43	6.56	EA001
Temperature + Humidity Sensor	1.73x0.83x.43	6.56	EB001
3 Temperature + Humidity Sensor	1.73x0.83x.43	6.56	EC001
Water - Rope	2.36x2.36x0.87	6.56	ED001
Water- Spot	2.36x2.36x0.87	16.40	EE001
3 Sensor Hub	3.35x1.26x1.06	n/a	EF001
Water - Rope extension	n/a	6.56	EG001



EA001



EB001



EC001



ED001



EE001



EF001



EG001

## Security

Description:	Dimensions L x W x H (in)	Length (ft)	Panduit Part No.
Door Switch (magnetic 2 piece)	1.73x0.83x0.43 (1.14x0.67x0.28 for magnet)	3.28	ACA01
Access hub for handle (cold & hot aisle selectable)	3.74x1.46x1.14	n/a	ACB01
Access hub harness cold aisle (ACE02)	n/a	9.84	ACB02
Access hub harness hot aisle (ACE02)	n/a	8.53	ACB03
Access hub harness cold aisle (ACE01)	n/a	9.84	ACB04
Access hub harness hot aisle (ACE01)	n/a	8.53	ACB05
Dry Contact Input	1.73x0.83x0.43	5.91	ACC01
USB Light Strip	15.04	n/a	ACD01
Swinghandle No Card Reader	n/a	n/a	ACE01
Swinghandle With Card Reader	n/a	n/a	ACE02



ACA01



ACB01



ACB02



ACB03



ACB04



ACB05



ACC01



ACD01



ACE01



ACE02

Complete Warranty & Compliance information can be found at [www.panduit.com](http://www.panduit.com)  
Customer Service: [cs@panduit.com](mailto:cs@panduit.com) or 800.777.3300  
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PUCB10-SA-ENG 9/2017