



Best in Class Outlet Density

Optimal Form Factors

Superior Reliability

Smartzone™ G5

# iPDU Pocket Guide

INTERNATIONAL

**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)

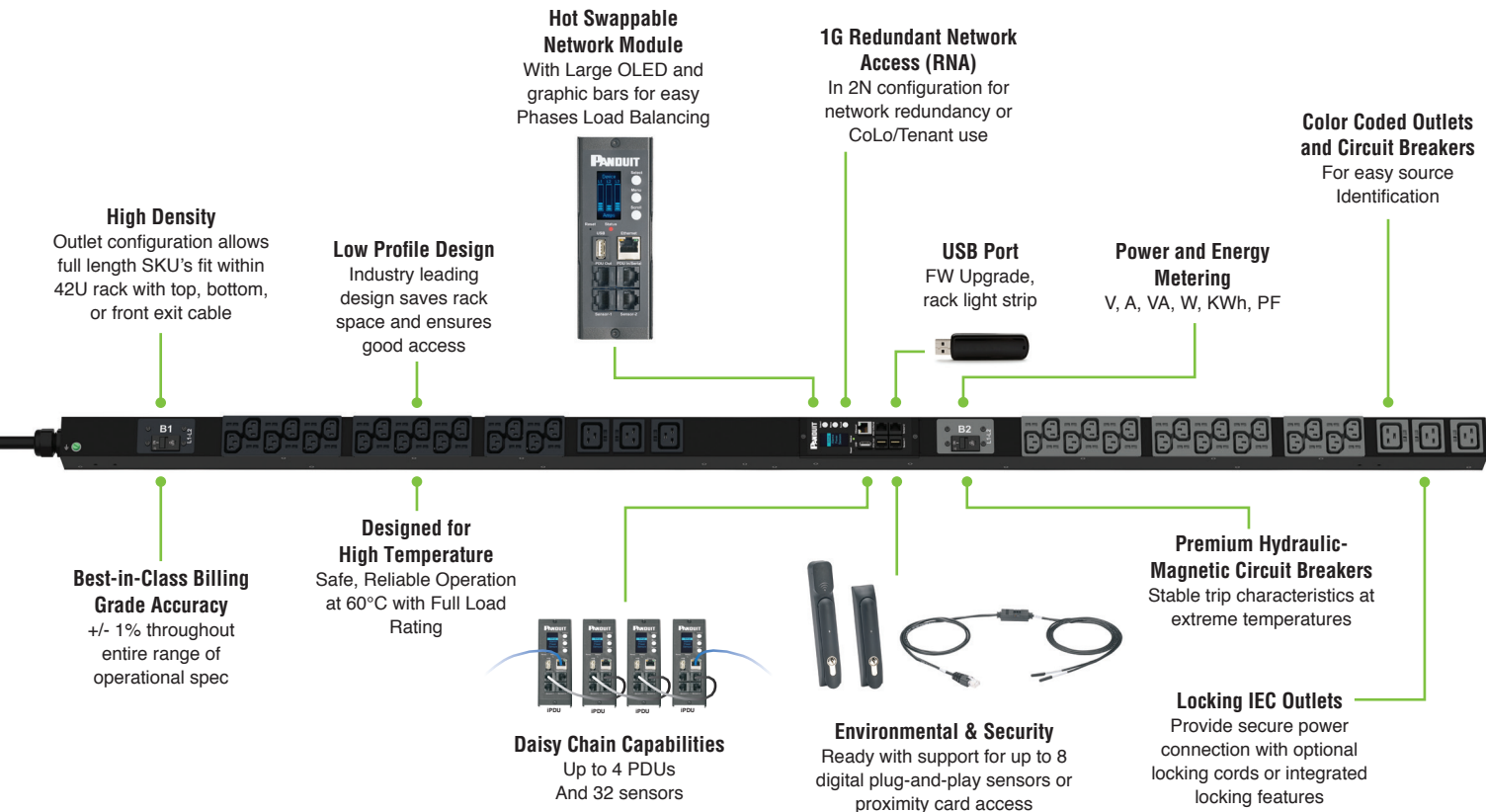
Rack PDUs that have the ability for outlet level power monitoring to quickly identify potential power issues, and reclaim available or under-utilized power capacity at the outlet level enabling the redeployment or decommissioning of individual servers to reclaim available or under-utilized power capacity.

### Monitored Switched Per Outlet (MSP0 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.



# 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 (MSPO)
•	•	•	•
•	•	•	•
	•		•
		•	•
•	•	•	•
•	•	•	•
•	•	•	•
•	•	•	•

## Monitored Input (MI Series)

	Input Current per phase	Form Factor	Input Plug Type	Apparent Power (kVA)	Outlet Count
100-240VAC, 1-Phase	16	1U	IEC 60309-316P6	3.7 kVA	12
	16	0U MID	IEC 60309-316P6	3.7 kVA	24
200-240VAC, 1-Phase	32	2U	IEC 60309-332P6	7.4 kVA	16
	32	0U Mid	IEC 60309-332P6	7.4 kVA	24
	32	0U FULL	IEC 60309-332P6	7.4 kVA	34
	32	0U FULL	IEC 60309-332P6	7.4 kVA	42
200-240/346-415 VAC, 3-Phase	16	1U	IEC 60309-516P6	11.0 kVA	6
	32	1U	IEC 60309-532P6	22.0 kVA	6
	16	0U MID	IEC 60309-516P6	11.0 kVA	30
	16	0U FULL	IEC 60309-516P6	11.0 kVA	42
	32	0U FULL	IEC 60309-532P6	22.0 kVA	24
	32	0U FULL	IEC 60309-532P6	22.0 kVA	42
	32	0U FULL - 2 sided	IEC 60309-532P6	22.0 kVA	48

Outlet Configuration	Height (mm)	Width (mm)	Depth (mm) at Outlet position	Panduit SKU Part No.
☒ (12)C13	43.51	443.51	269.75	P12D36M
☒ (20)C13, ☒ (4)C19	1489.99	51.99	53.01	P24D40M
☒ (12)C13, ☒ (4)C19	87.00	443.51	269.75	P16D37M
☒ (20)C13, ☒ (4)C19	1489.99	51.99	53.01	P24D03M
☒ (28)C13, ☒ (6)C19	1750.01	51.99	53.01	P34D41M
☒ (36)C13, ☒ (6)C19	1750.01	51.99	53.01	P42D06M
☒ (6)C19	43.51	443.51	269.75	P06D38M
☒ (6)C19	43.51	443.51	269.75	P06D39M
☒ (24)C13, ☒ (6)C19	1489.99	51.99	53.01	P30D05M
☒ (36)C13, ☒ (6)C19	1750.01	51.99	53.01	P42D42M
☒ (12)C13, ☒ (12)C19	1750.01	51.99	53.01	P24D43M
☒ (30)C13, ☒ (12)C19	1750.01	54.99	53.01	P42D04M
☒ (36)C13, ☒ (12)C19	1820.01	51.99	111.99	P48D44M

## Monitored Switched (MS Series)

200-240VAC, 1-Phase	16	1U	IEC 60309-316P6	3.7	8
	32	1U	IEC 60309-332P6	7.4	8
	32	2U	IEC 60309-332P6	7.4	16
	16	0U HALF	IEC 60309-316P6	3.7	16
	16	0U MID	IEC 60309-316P6	3.7	24
	32	0U FULL	IEC 60309-332P6	7.4	24
	32	0U FULL	IEC 60309-332P6	7.4	32
	32	0U FULL - wide	IEC 60309-332P6	7.4	44
200-240/346-415VAC, 3-Phase	16	0U FULL	IEC 60309-516P6	11.0	24
	16	0U FULL	IEC 60309-516P6	11.0	36
	32	0U FULL	IEC 60309-532P6	22.0	24
	32	0U FULL - wide	IEC 60309-532P6	22.0	36
	32	0U FULL - 2 sided	IEC 60309-532P6	22.0	48

☒ (8)C13	43.5	443.5	269.7	P08E25M
☒ (8)C13	43.5	443.5	269.7	P08E05M
☒ (12)C13, ☒ (4)C19	87.0	443.5	269.7	P16E26M
☒ (12)C13, ☒ (4)C19	917.0	52.0	53.0	P16E27M
☒ (20)C13, ☒ (4)C19	1490.0	52.0	53.0	P24E04M
☒ (20)C13, ☒ (4)C19	1750.0	52.0	53.0	P24E01M
☒ (24)C13, ☒ (8)C19	1750.0	52.0	53.0	P32E06M
☒ (38)C13, ☒ (6)C19	1750.0	85.0	53.0	P44E07M
☒ (18)C13, ☒ (6)C19	1750.0	52.0	53.0	P24E02M
☒ (30)C13, ☒ (6)C19	1750.0	52.0	53.0	P36E08M
☒ (12)C13, ☒ (12)C19	1750.0	52.0	53.0	P24E03M
☒ (24)C13, ☒ (12)C19	1750.0	85.0	53.0	P36E09M
☒ (36)C13, ☒ (12)C19	1820.0	52.0	112.0	P48E10M

## Monitored Per Outlet (MPO Series)

	Input Current per phase	Form Factor	Input Plug Type	Apparent Power (kVA)	Outlet Count
200-240VAC, 1-Phase	32	0U FULL	IEC 60309-332P6	7.4	24
	32	0U FULL	IEC 60309-332P6	7.4	32
	32	0U FULL - wide	IEC 60309-332P6	7.4	44
200-240/346- 415 VAC, 3-Phase	16	0U FULL	IEC 60309-516P6	11	24
	16	0U FULL	IEC 60309-516P6	11	36
	32	0U FULL	IEC 60309-532P6	22	24
	32	0U FULL - wide	IEC 60309-532P6	22	36
	32	0U FULL - 2 sided	IEC 60309-532P6	22	48

Outlet Configuration	Height (mm)	Width (mm)	Depth (mm) at Outlet position	Panduit SKU Part No.
☐ (20)C13, ☐ (4)C19	1750.01	51.99	53.01	P24F06M
☐ (24)C13, ☐ (8)C19	1750.01	51.99	53.01	P32F10M
☐ (38)C13, ☐ (6)C19	1750.01	84.99	53.01	P44F11M
☐ (18)C13, ☐ (6)C19	1750.01	51.99	53.01	P24F07M
☐ (30)C13, ☐ (6)C19	1750.01	51.99	53.01	P36F12M
☐ (12)C13, ☐ (12)C19	1750.01	51.99	53.01	P24F08M
☐ (24)C13, ☐ (12)C19	1750.01	84.99	53.01	P36F13M
☐ (36)C13, ☐ (12)C19	1820.01	51.99	111.99	P48F09M

## Monitored & Switched Per Outlet (MSPO Series)

100-240VAC, 1-Phase	16	1U	IEC 60309-316P6	3.7	8
	16	0U Mid	IEC 60309-316P6	3.7	24
200-240VAC, 1-Phase	32	1U	IEC 60309-332P6	7.4	8
	32	0U FULL	IEC 60309-332P6	7.4	24
	32	0U FULL	IEC 60309-332P6	7.4	32
	32	0U FULL - wide	IEC 60309-332P6	7.4	44
200-240/346- 415VAC, 3-Phase	16	0U FULL	IEC 60309-516P6	11	24
	16	0U FULL	IEC 60309-516P6	11	36
	32	0U FULL	IEC 60309-532P6	22	24
	32	0U FULL - wide	IEC 60309-532P6	22	36
	32	0U FULL - 2 sided	IEC 60309-532P6	22	48

☐ (8)C13	43.51	443.51	269.75	P08G10M
☐ (20)C13, ☐ (4)C19	1489.99	51.99	53.01	P24G11M
☐ (8)C13	43.51	443.51	269.75	P08G12M
☐ (20)C13, ☐ (4)C19	1750.01	51.99	53.01	P24G06M
☐ (24)C13, ☐ (8)C19	1750.01	51.99	53.01	P32G13M
☐ (38)C13, ☐ (6)C19	1750.01	84.99	53.01	P44G14M
☐ (18)C13, ☐ (6)C19	1750.01	51.99	53.01	P24G07M
☐ (30)C13, ☐ (6)C19	1750.01	51.99	53.01	P36G15M
☐ (12)C13, ☐ (12)C19	1750.01	51.99	53.01	P24G08M
☐ (24)C13, ☐ (12)C19	1750.01	84.99	53.01	P36G16M
☐ (36)C13, ☐ (12)C19	1820.01	51.99	111.99	P48G09M



## 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 (M)  
Panduit Part No. (1 pc)  
Panduit Part No. (10 pk)

0.6	LPCA01	LPCA01X
0.9	LPCA02	LPCA02X
1.2	LPCA03	LPCA03X
1.8	LPCA04	LPCA04X
0.6	LPCA06	LPCA06X
0.9	LPCA07	LPCA07X
1.2	LPCA08	LPCA08X
1.8	LPCA09	LPCA09X
0.6	LPCA11	LPCA11X
0.9	LPCA12	LPCA12X
1.2	LPCA13	LPCA13X
1.8	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

## Environmental Sensors

Description:	Dimensions L x W x H (mm)	Length (M)	Panduit Part No.
Temperature Sensor	44 x 21 x 11	2	EA001
Temperature + Humidity Sensor	44 x 21 x 11	2	EB001
3 Temperature + Humidity Sensor	44 x 21 x 11	2	EC001
Water - Rope	60 x 60 x 22	2	ED001
Water- Spot	60 x 60 x 22	5	EE001
3 Sensor Hub	85 x 32 x 27	n/a	EF001
Water - Rope extension	n/a	2	EG001



EA001



EB001



EC001



ED001



EE001



EF001



EG001

## Security

Description:	Dimensions L x W x H (mm)	Length (M)	Panduit Part No.
Door Switch (magnetic 2 piece)	44 x 21 x 11 (29 x 19 x 7 for magnet)	1	ACA01
Access hub for handle (cold & hot aisle selectable)	95 x 37 x 29	n/a	ACB01
Access hub harness cold aisle (ACE02)	n/a	3	ACB02
Access hub harness hot aisle (ACE02)	n/a	2.6	ACB03
Access hub harness cold aisle (ACE01)	n/a	3	ACB04
Access hub harness hot aisle (ACE01)	n/a	2.5	ACB05
Dry Contact Input	44 x 21 x 11	1.8	ACC01
USB Light Strip	382 x 17 x 12	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



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