



## overview

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The Panduit™ SmartZone™ G5 Basic & Intelligent Power Distribution Units are more than a power distribution unit and energy meter. These iPDUs monitor the data center power and environment (at the rack or cabinet level), by continuously scanning for electrical circuit overloads, and physical environmental conditions that place critical IT equipment at risk. Panduit's iPDUs provide comprehensive, accurate, energy measurement data to efficiently use power resources, make informed capacity planning decisions, improve uptime, measure PUE (power usage effectiveness), and drive green data center initiatives to save energy and money.

Making the right choice in IT equipment is essential for a safe, efficient data center operation. Our full range of iPDUs, environmental sensors, and dual locking power cords are the key to fulfilling mission-critical data center needs.

## technical information

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<i>Dimensions:</i>	<b>Height Inch (mm)</b>	<b>Width Inch (mm)</b>	<b>Depth Inch (mm)</b>
1U:	1.6 (40.6)	17.5 (444.5)	2.0 (50.8)
1U:	1.7 (43.2)	17.5 (444.5)	7.8 (198.1)
1U:	1.7 (43.2)	17.5 (444.5)	10.6 (269.2)
2U:	3.4 (86.4)	17.5 (444.5)	
0U FULL:	68.9 (1750.1)	2.0 (50.8)	

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# SmartZone™ G5 Basic & Intelligent Power Distribution Units (iPDUs) for Japan

## key features and benefits (iPDUs) (continued)

<b>Cable Retention</b>	Innovative cable tie accepting outlets allow for secure cord retention (C13 & C19 only) using a cable tie for added safety and security. (Panduit part number: PLT2I-C0)
<b>Circuit Breakers</b>	Protects data center equipment for increased reliability by interrupting potentially hazardous circuit over-current conditions*
<b>Color Coded Circuits*</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 oLED (for 3 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

\*Applies to products outfitted with circuit breakers

## PDU product families

<b>Basic Series:</b>	Non Networked Rack PDUs provide reliable and cost effective power distribution in a variety of inputs (Single or Three Phase) and outlet configurations (IEC C13, C19, or 5-20R).
<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>JPN</b> <ul style="list-style-type: none"> <li>• Single-Phase 100V - 120V</li> <li>• Single-Phase 200V - 240V</li> <li>• Three-Phase 200V - 240V</li> <li>• Three-Phase 346V - 415V</li> </ul>
<b>Input Current: (per phase)</b>	<b>JPN</b> <ul style="list-style-type: none"> <li>• 16A, 20A, 30A, 32A, 60A</li> </ul>
<b>Input Power:</b>	<b>JPN</b> <ul style="list-style-type: none"> <li>• 1.9 – 22.0 (kVA)</li> </ul>
<b>Input Frequency:</b>	50/60 Hz
<b>Output Voltage:</b>	100VAC, 200VAC, 240VAC
<b>Maximum output: current (outlet)</b>	IEC C13: 10A IEC C19: 16A NEMA 5-20R: 16A
<b>Overload protection: (where applicable)</b>	Circuit Breakers, hydraulic magnetic
<b>Input Cord Length:</b>	10 ft. (3m) unless otherwise specified

# SmartZone™ G5 Basic & Intelligent Power Distribution Units (iPDUs) for Japan

## general specifications

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**Temperature:  
Operating** 10°C to 60°C (50°F to 140°F)

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**Temperature:  
Storage** -20°C to 60°C (-4°F to 140°F)

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**Relative Humidity:  
Operating** 10% to 90% non-condensing

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**Relative Humidity:  
Non-Operating** 5% to 95% RH

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**Relative Humidity:  
Storage** 5% to 95%

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**Elevation:  
Operating** 0 to 10,000 ft. (0 to 3000 m)

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**Elevation:  
Storage** 0 to 30,000 ft. (0 to 9144 m)

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**Conformance Standards:** PSE Compliant: PDUs ≤ 50A or ≤ 300V  
UL File number: E218078  
PSE Exempt: PDUs > 50A or > 300V

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**Environmental  
Compliances:** RoHS & REACH

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## cabinet compatibility

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Panduit iPDUs can be easily installed into Panduit (or third party cabinets) by utilizing the installed mounting buttons (18.4 mm diameter). Where necessary, a Small Diameter (14.5 mm) mounting button is available (sold separately, P/N: MA018). Panduit PDUs feature threaded inserts on the back and both sides for the ultimate in mounting flexibility. 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.

# SmartZone™ G5 Basic & Intelligent Power Distribution Units (iPDUs) for Japan

## Basic Series

Region	Form Factor	Input Plug Type	Input Voltage Range	Input Current per Phase	Circuit Breakers	Apparent Power (kVA)	Outlet Count	Outlet Type	Output Voltage	Panduit Part Number	
100-240VAC, 1-Phase	JPN	1U	NEMA L5-20P	100-120VAC	20	0	1.9 kVA	12	(12)5-20R	100	P12BF6M-BL6C
	JPN	1U	NEMA L6-20P	200-240VAC	20	0	3.3 kVA	12	(12)C13	200	P12BF7M-BL6C
	JPN	1U	NEMA L6-30P	200-240VAC	30	2	5.0 kVA	12	(12)C13	200	P12BF8M-BL6C
	JPN	0U HALF	NEMA L5-20P	100-120VAC	20	0	1.9 kVA	16	(16)5-20R	100	P16BF9M-BL1C
	JPN	2U	NEMA L5-30P	100-120VAC	30	2	2.9 kVA	16	(16)5-20R	100	P16BG0M-BL6C
	JPN	0U HALF	NEMA L6-30P	200-240VAC	30	2	5.0 kVA	20	(20)C13	200	P20BG2M-BL1C
	JPN	0U HALF	NEMA L5-20P	100-120VAC	20	0	1.9 kVA	22	(20)C13, (2)C19	100	P22BG3M-BL1C
	JPN	0U HALF	NEMA L5-30P	100-120VAC	30	2	2.9 kVA	22	(22)5-20R	100	P22BG4M-BL1C
	JPN	0U HALF	NEMA L6-20P	200-240VAC	20	0	3.3 kVA	22	(20)C13, (2)C19	200	P22BG5M-BL1C
	JPN	0U HALF	NEMA L5-30P	100-120VAC	30	2	2.9 kVA	22	(22)5-20R	100	P22BH9M-BL1R
	JPN	0U MID	NEMA L6-30P	200-240VAC	30	2	5.0 kVA	24	(20)C13, (4)C19	200	P24BG7M-BL1C
	JPN	0U MID	NEMA L6-30P	200-240VAC	30	2	5.0 kVA	42	(36)C13, (6)C19	200	P42BH0M-BL1C
JPN	0U MID	NEMA L6-30P	200-240VAC	30	2	5.0 kVA	42	(36)C13, (6)C19	200	P42BJ0M-BL1R	
200-240VAC, 3-Phase	JPN	1U	IEC 60309 3P+E 9h 60A (IP44)	200-240VAC	60	6	17.3 kVA	6	(6)C19	200	P06B03M
	JPN	0U FULL	IEC 60309 3P+E 9h 60A (IP44)	200-240VAC	60	6	17.3 kVA	24	(12)C13, (12)C19	200	P24B14M
	JPN	1U	NEMA L15-30P	200-240VAC, DELTA	30	3	8.6 kVA	6	(6)C19	200	P06BF5M-BL6C
	JPN	0U HALF	NEMA L15-30P	200-240VAC, DELTA	30	3	8.6 kVA	18	(18)C13	200	P18BG1M-BL1C
	JPN	0U MID	NEMA L15-30P	200-240VAC, DELTA	30	3	8.6 kVA	36	(30)C13, (6)C19	200	P36BG8M-BL1C
	JPN	0U FULL	NEMA L15-30P	200-240VAC, DELTA	30	3	8.6 kVA	42	(36)C13, (6)C19	200	P42BH1M-BL1C
415VAC, 3-Phase	JPN	1U	IEC 60309 3P+N+E 6h 16A (IP44)	346-415VAC	16	0	11.0 kVA	6	(6)C19	240	P06B37M
	JPN	1U	IEC 60309 3P+N+E 6h 32A (IP44)	346-415VAC	32	6	22.0 kVA	6	(6)C19	240	P06B38M
	JPN	0U FULL	IEC 60309 3P+N+E 6h 32A (IP44)	346-415VAC	32	6	22.0 kVA	24	(12)C13, (12)C19	240	P24B12M
	JPN	0U MID	IEC 60309 3P+N+E 6h 16A (IP44)	346-415VAC	16	0	11.0 kVA	30	(24)C13, (6)C19	240	P30B13M
	JPN	0U FULL	IEC 60309 3P+N+E 6h 32A (IP44)	346-415VAC	32	6	22.0 kVA	42	(30)C13, (12)C19	240	P42B11M
	JPN	0U MID	IEC 60309 3P+N+E 6h 16A (IP44)	346-415VAC	16	0	11.0 kVA	42	(36)C13, (6)C19	240	P42B44M
	JPN	1U	NEMA L22-30P	346-415VAC	30	6	17.3 kVA	6	(6)C19	240	P06B04M
	JPN	0U FULL	NEMA L22-30P	346-415VAC	30	6	17.3 kVA	24	(12)C13, (12)C19	240	P24B02M
	JPN	0U FULL	NEMA L22-30P	346-415VAC	30	6	17.3 kVA	36	(24)C13, (12)C19	240	P36B02M
	JPN	0U FULL - Wide	NEMA L22-30P	346-415VAC	30	6	17.3 kVA	48	(48)C13	240	P48B03M
	JPN	0U FULL - Wide	NEMA L22-30P	346-415VAC	30	6	17.3 kVA	54	(48)C13, (6)C19	240	P54B03M

Note: Minimum Order Quantity: 30 Pieces Per Part Number, Lead Time: 45 Business Days, Terms: Non-Cancellable/Non-Returnable

## Monitored Input (MI Series)

Region	Form Factor	Input Plug Type	Input Voltage Range	Input Current per Phase	Circuit Breakers	Apparent Power (kVA)	Outlet Count	Outlet Type	Output Voltage	Panduit Part Number	
100-240VAC, 1-Phase	JPN	1U	NEMA L5-20P	100-120VAC	20	0	1.9 kVA	8	(8)5-20R	100	P08DE8M-BL6C
	JPN	1U	NEMA L6-20P	200-240VAC	20	0	3.3 kVA	12	(12)C13	200	P12DE9M-BL6C
	JPN	2U	NEMA L5-30P	100-120VAC	30	2	2.9 kVA	16	(16)5-20R	100	P16DF0M-BL6C
	JPN	2U	NEMA L6-30P	200-240VAC	30	2	5.0 kVA	16	(12)C13, (4)C19	200	P16DF1M-BL6C
	JPN	0U HALF	NEMA L5-20P	100-120VAC	20	0	1.9 kVA	16	(16)5-20R	100	P16DF2M-BL1C
	JPN	0U MID	NEMA L6-30P	200-240VAC	30	2	5.0 kVA	24	(20)C13, (4)C19	200	P24DF3M-BL1C
	JPN	0U MID	NEMA L5-30P	100-120VAC	30	2	2.9 kVA	24	(24)5-20R	100	P24DF4M-BL1C
	JPN	0U MID	NEMA L6-20P	200-240VAC	20	0	3.3 kVA	24	(20)C13, (4)C19	200	P24DF5M-BL1C
	JPN	0U MID	NEMA L5-30P	100-120VAC	30	2	2.9 kVA	24	(24)5-20R	100	P24DG9M-BL1R
	JPN	0U FULL	NEMA L6-30P	200-240VAC	30	2	5.0 kVA	38	(32)C13, (6)C19	200	P38DF9M-BL1C
	JPN	0U FULL	NEMA L6-30P	200-240VAC	30	2	5.0 kVA	38	(32)C13, (6)C19	200	P38DH0M-BL1R
	200-240VAC, 3-Phase	JPN	0U FULL	IEC 60309 3P+E 9h 60A (IP44)	200-240VAC	60	6	17.3 kVA	24	(12)C13, (12)C19	200
JPN		1U	NEMA L15-30P	200-240VAC, DELTA	30	3	8.6 kVA	6	(6)C19	200	P06DE6M-BL6C
JPN		0U MID	NEMA L15-30P	200-240VAC, DELTA	30	3	8.6 kVA	24	(18)C13, (6)C19	200	P24DF6M-BL1C
JPN		0U FULL	NEMA L15-30P	200-240VAC, DELTA	30	3	8.6 kVA	36	(30)C13, (6)C19	200	P36DF8M-BL1C
415VAC, 3-Phase	JPN	1U	IEC 60309 3P+N+E 6h 16A (IP44)	346-415VAC	16	0	11.0 kVA	6	(6)C19	240	P06D38M
	JPN	1U	IEC 60309 3P+N+E 6h 32A (IP44)	346-415VAC	32	6	22.0 kVA	6	(6)C19	240	P06D39M
	JPN	0U FULL	IEC 60309 3P+N+E 6h 32A (IP44)	346-415VAC	32	6	22.0 kVA	24	(12)C13, (12)C19	240	P24D43M
	JPN	0U MID	IEC 60309 3P+N+E 6h 16A (IP44)	346-415VAC	16	0	11.0 kVA	30	(24)C13, (6)C19	240	P30D05M
	JPN	0U FULL	IEC 60309 3P+N+E 6h 32A (IP44)	346-415VAC	32	6	22.0 kVA	42	(30)C13, (12)C19	240	P42D04M
	JPN	0U FULL	IEC 60309 3P+N+E 6h 16A (IP44)	346-415VAC	16	0	11.0 kVA	42	(36)C13, (6)C19	240	P42D42M
	JPN	1U	NEMA L22-30P	346-415VAC	30	6	17.3 kVA	6	(6)C19	240	P06D02M
	JPN	0U FULL	NEMA L22-30P	346-415VAC	30	6	17.3 kVA	24	(12)C13, (12)C19	240	P24D04M
	JPN	0U FULL	NEMA L22-30P	346-415VAC	30	6	17.3 kVA	36	(24)C13, (12)C19	240	P36D02M
	JPN	0U FULL - Wide	NEMA L22-30P	346-415VAC	30	6	17.3 kVA	48	(48)C13	240	P48D03M
JPN	0U FULL +	NEMA L22-30P	346-415VAC	30	6	17.3 kVA	42	(36)C13, (6)C19	240	P42D07M	

Note: Minimum Order Quantity: 30 Pieces Per Part Number, Lead Time: 45 Business Days, Terms: Non-Cancellable/Non-Returnable



# SmartZone™ G5 Basic & Intelligent Power Distribution Units (iPDUs) for Japan

## Monitored & Switched Per Outlet (MSPO)

	Region	Form Factor	Input Plug Type	Input Voltage Range	Input Current per Phase	Circuit Breakers	Apparent Power (kVA)	Outlet Count	Outlet Type	Output Voltage	Panduit Part Number
200-240VAC, 3-Phase	JPN	0U FULL	IEC 60309 3P+E 9h 60A (IP44)	200-240VAC	60	6	17.3 kVA	24	(12)C13, (12)C19	200	P24G05M
415VAC, 3-Phase	JPN	0U FULL	IEC 60309 3P+N+E 6h 16A (IP44)	346-415VAC	16	0	11.0 kVA	24	(18)C13, (6)C19	240	P24G07M
	JPN	0U FULL	IEC 60309 3P+N+E 6h 32A (IP44)	346-415VAC	32	6	22.0 kVA	24	(12)C13, (12)C19	240	P24G08M
	JPN	0U FULL	IEC 60309 3P+N+E 6h 16A (IP44)	346-415VAC	16	0	11.0 kVA	36	(30)C13, (6)C19	240	P36G15M
	JPN	0U FULL - Wide	IEC 60309 3P+N+E 6h 32A (IP44)	346-415VAC	32	6	22.0 kVA	36	(24)C13, (12)C19	240	P36G16M
	JPN	0U FULL	NEMA L22-30P	346-415VAC	30	6	17.3 kVA	24	(12)C13, (12)C19	240	P24G10M
	JPN	0U FULL	NEMA L22-30P	346-415VAC	30	6	17.3 kVA	24	(18)C13, (6)C19	240	P24G18M
	JPN	0U FULL	NEMA L22-30P	346-415VAC	30	6	17.3 kVA	24	(24)C13	240	P24G19M
	JPN	0U FULL - Wide	NEMA L22-30P	346-415VAC	30	6	17.3 kVA	36	(24)C13, (12)C19	240	P36G02M
	JPN	0U FULL - Wide	NEMA L22-30P	346-415VAC	30	6	17.3 kVA	36	(30)C13, (6)C19	240	P36G06M
	JPN	0U FULL - Wide +	NEMA L22-30P	346-415VAC	30	6	17.3 kVA	48	(48)C13	240	P48G04M
	JPN	0U FULL - Wide +	NEMA L22-30P	346-415VAC	30	6	17.3 kVA	48	(42)C13, (6)C19	240	P48G06M

Note: Minimum Order Quantity: 30 Pieces Per Part Number, Lead Time: 45 Business Days, Terms: Non-Cancellable/Non-Returnable

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3/2022