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► Power Distribution Units (PDU)



Blade servers and high density computing power requirements continue to increase, creating heat expansion and more challenges for managing the IT environment. To maintain a competitive advantage, data center managers need SNMP-based solutions that monitor, track and manage servers, IT equipment and the equipment cabinet infrastructure that houses them. PDU power distribution units may monitor, track, and manage every aspect of data center activity and provide efficient solutions for critical elements including data center cooling, security and server management. Rittal's Basic PDU products provide reliable power distribution for equipment racks and other data center applications. User-friendly features include a combination of white and black outlets to easily distinguish between each branch circuit. Included here are the most popular sizes and configurations.

- 120V and 208V power options
- 20 or 30 amp options on basic units
- UL-list fuses and circuit breakers
- Metered models monitor from 2,000 to 6,000 watt components
- Smart PDU models combine distribution with remote monitoring for 4,000 to 20,000 watts
- Smart units available in 20, 30, 50 and 60 amp versions
- Receptacle configurations from 6 to 48 outlets
- PIPS – Per Inlet Power Sensing – units monitor current, voltage, power and other vital requirements
- POPS – Per Outlet Power Sensing – units provide data on such things as load, voltage and power (kW)
- Switched PDU models offer complete “lights out” remote management
- Accessories include temperature and humidity sensors

Basic PDU

Basic PDU products provide reliable power distribution for equipment racks and other data center applications by offering different input and output connections to distribute 110V or 208V power and 20 or 30 Amp power input feed.

Criteria for Branch Circuit Protection is met by the use of UL-listed fuses or breakers, with 30 Amp models featuring a combination of white and black outlets to easily distinguish between each branch circuit.

Voltage	Amps	Receptacles	No. of receptacles	Plug	Over current protection	L x W x H inches (mm)	Part No.
120V	20	5-20	12	C20	–	1.75 x 17 x 2.25 (44 x 482 x 57)	9970.843¹⁾
120V	20	5-20	24	C20	–	31.25 x 1.75 x 2.25 (794 x 44 x 57)	9970.847¹⁾
120V	30	5-20	12	L5-30	–	1.75 x 17 x 2.25 (44 x 482 x 57)	9970.844
120V	30	5-20	24	L5-30	–	31.25 x 1.75 x 2.25 (794 x 44 x 57)	9970.848
208V	20	C13	12	C20	–	1.75 x 17 x 2.25 (44 x 482 x 57)	9970.845¹⁾
208V	20	C13	24	C20	Breaker	34 x 1.75 x 3.5 (864 x 44 x 89)	9978.440¹⁾
208V	30	C13	12	L6-30	–	1.75 x 17 x 2.25 (44 x 482 x 57)	9970.846
208V	30	C13	24	L6-30	Breaker	34 x 1.75 x 3.5 (864 x 44 x 89)	9978.441

1) Order power cord separately

Metered PDU

Metered PDU products provide reliable power distribution for all the devices in your equipment cabinet, from 2,000 to 6,000 Watts.

Metered units are available in 20 or 30 Amps, 120 or 208 Volts single-phase. Local input current monitoring allows the installation engineer to verify the combined load on the circuit.

Voltage	Amps	Receptacles	No. of receptacles	Plug	Over current protection	L x W x H inches (mm)	Part No.
120V	20	5-20	10	C20	–	1.75 x 17 x 5 (44 x 432 x 127)	9963.678¹⁾
120V	20	5-20	12	C20	Fuse	31.25 x 1.75 x 2.25 (794 x 44 x 57)	9963.670¹⁾
120V	20	5-20	24	C20	Fuse	54 x 1.75 x 2.25 (1372 x 44 x 57)	9963.674¹⁾
120V	30	5-20	10	L5-30	–	1.75 x 17 x 5 (44 x 432 x 127)	9963.679
120V	30	5-20	12	L5-30	Fuse	31.25 x 1.75 x 2.25 (794 x 44 x 57)	9963.671
120V	30	5-20	24	L5-30	Fuse	54 x 1.75 x 2.25 (1372 x 44 x 57)	9963.675
208V	20	C13	12	C20	–	1.75 x 17 x 5 (44 x 432 x 127)	9963.680¹⁾
208V	20	C13	12	C20	Fuse	31.25 x 1.75 x 2.25 (794 x 44 x 57)	9963.672¹⁾
208V	20	C13, C19	24,6	C20	Breaker	60.0 x 1.75 x 2.25 (1524 x 44 x 57)	9963.676¹⁾
208V	30	C13	12	L6-30	–	1.75 x 17 x 5 (44 x 432 x 127)	9963.681
208V	30	C13	24	L6-30	–	1.75 x 17 x 5 (44 x 432 x 127)	9978.444
208V	30	C13	12	L6-30	Fuse	31.25 x 1.75 x 2.25 (794 x 44 x 57)	9963.673
208V	30	C13, C19	24,6	L6-30	Breaker	60.0 x 1.75 x 2.25 (1524 x 44 x 57)	9972.960

1) Order power cord separately

Smart PDU

Smart PDU products provide reliable power distribution combined with remote power and environmental monitoring for 4,000 to 20,000 Watts. Smart units are available in 20, 30, 50, or 60 Amps, 120 or 208 Volts single-phase, 208 Volts three-phase. Use the network interface to view power, temperature and humidity levels via a Web browser, or receive SNMP-based alarms when conditions exceed defined thresholds.

PIPS – Per Inlet Power Sensing – PDUs provide power monitoring per inlet/infeed and includes current, voltage, power, apparent power, crest factor, reactance, power factor and accumulated energy. This information replaces branch circuit monitoring devices typically installed in the power distribution panel or remote power panel (RPP) with higher accuracy and lower cost monitoring of each circuit attached to the PDU.

Voltage	Amps	Receptacles	No. of receptacles	Plug	Overcurrent protection	L x W x H inches (mm)	Master / Expansion	Part No.
208V	20	C13, C19	24, 6	C20	Breaker	60 x 1.75 x 2.25 (1525 x 44 x 57)	Master	9978.446^{1) 2)}
208V	20	C13, C19	24, 6	C20	Breaker	60 x 1.75 x 2.25 (1525 x 44 x 57)	Expansion	9978.445^{1) 2)}

1) Order power cord separately 2) Includes PIPS

Smart PDU (continued)

Voltage	Amps	Receptacles	No. of receptacles	Plug	Overcurrent protection	L x W x H inches (mm)	Master / Expansion	Part No.
208V	30	C13, C19	24, 6	L6-30	Breaker	60 x 1.75 x 2.25 (1525 x 44 x 57)	Master	9972.961²⁾
208V	30	C13, C19	24, 6	L6-30	Breaker	60 x 1.75 x 2.25 (1525 x 44 x 57)	Expansion	9972.962²⁾
208 3P Delta	30	C13	24	L15-30	Fuse	69 x 1.75 x 2.25 (1753 x 44 x 57)	Master	9971.104
208 3P Delta	30	C13	24	L15-30	Fuse	69 x 1.75 x 2.25 (1753 x 44 x 57)	Expansion	9971.105
208 3P Delta	50	C13, C19	12, 12	Cord set	Breaker	69 x 1.75 x 3.5 (1753 x 44 x 89)	Master	9978.450
208 3P Delta	50	C13, C19	12, 12	Cord set	Breaker	69 x 1.75 x 3.5 (1753 x 44 x 89)	Expansion	9978.449
208V 3P Delta	50	L6-30	6	Cord set	Breaker	3.5 x 17 x 10 (89 x 432 x 254)	Master	9978.452
208V 3P Delta	50	L6-30	6	Cord set	Breaker	3.5 x 17 x 10 (89 x 432 x 254)	Expansion	9978.451
208V 3P Delta	60	L6-30	6	Cord set	Breaker	3.5 x 17 x 10 (89 x 432 x 254)	Master	9978.459
208V 3P Delta	60	L6-30	6	Cord set	Breaker	3.5 x 17 x 10 (89 x 432 x 254)	Expansion	9978.457
208 3P Delta	60	C13, C19	12, 12	Cord set	Breaker	69 x 1.75 x 3.5 (1524 x 44 x 89)	Master	9978.455
208 3P Delta	60	C13, C19	12, 12	Cord set	Breaker	69 x 1.75 x 3.5 (1524 x 44 x 89)	Expansion	9978.453
208 3P Wye	30	C13	24	L21-30	Fuse	69 x 1.75 x 2.25 (1753 x 44 x 57)	Master	9971.106
208 3P Wye	30	C13	24	L21-30	Fuse	69 x 1.75 x 2.25 (1753 x 44 x 57)	Expansion	9971.107
208 3P Wye	60	C13, C19	12, 12	Cord set	Breaker	69 x 1.75 x 3.5 (1524 x 44 x 89)	Master	9978.456
208 3P Wye	60	C13, C19	12, 12	Cord set	Breaker	69 x 1.75 x 3.5 (1524 x 44 x 89)	Expansion	9978.454
208 3P Wye	60	L6-30	6	Cord set	Breaker	3.5 x 17 x 10 (89 x 432 x 254)	Master	9978.460
208 3P Wye	60	L6-30	6	Cord set	Breaker	3.5 x 17 x 10 (89 x 432 x 254)	Expansion	9978.458
415	20	C13	24	IEC Red 6Hr 3P+N+G	Fuse	69 x 1.75 x 2.25 (1753 x 44 x 57)	Master	9978.462
415	20	C13	24	IEC Red 6Hr 3P+N+G	Fuse	69 x 1.75 x 2.25 (1753 x 44 x 57)	Expansion	9978.461
415	30	C13	24	L22-30	Fuse	69 x 1.75 x 2.25 (1753 x 44 x 57)	Master	9978.464
415	30	C13	24	L22-30	Fuse	69 x 1.75 x 2.25 (1753 x 44 x 57)	Expansion	9978.463

2) Includes PIPS

Switched PDU

Switched PDU products include remote monitoring and management, plus reboot commands for connected servers and network equipment; providing complete lights-out management of a data center or remote branch office. Features include the ability to reboot a single or dual-power server with one command, receive SNMP alerts and the ability to assign specific access rights to designated outlets or groups. Switched PDU products can provide power requirements for high-amperage, high-voltage branch circuit protection and SSL & SSH security.

PIPS – Per Inlet Power Sensing – provides power monitoring per inlet/infeed including current, voltage, power, apparent power and accumulated energy, replacing branch circuit monitoring with higher accuracy and lower cost monitoring of each circuit. POPS – Per Outlet Power Sensing – provides information per individual outlet, including current load, voltage and power. Now power information is available per device, groups of devices, individual PDU or an entire cabinet.

Voltage	Amps	Receptacles	No. of receptacles	Plug	Overcurrent protection	L x W x H inches (mm)	Master / Expansion	Part No.
208-240V	30	C13	8	L6-30	Fuse	17.2 x 1.75 x 7.1 (437 x 44 x 181)	Master	9978.472
208-240V	30	C13	8	L6-30	Fuse	17.2 x 1.75 x 7.1 (437 x 44 x 181)	Expansion	9978.471
208-240V	30	C13	16	L6-30	Fuse	69 x 1.75x 2.25 (1753 x 44 x 57)	Master	9978.468²⁾
208-240V	30	C13	16	L6-30	Fuse	69 x 1.75x 2.25 (1753 x 44 x 57)	Expansion	9978.465²⁾
208-240V	30	C13	24	L6-30	Breaker	69 x 1.75x 2.25 (1753 x 44 x 57)	Master	9978.469²⁾
208-240V	30	C13	24	L6-30	Breaker	69 x 1.75x 2.25 (1753 x 44 x 57)	Expansion	9978.466²⁾
208-240V	30	C13, C19	18, 6	L6-30	Breaker	69 x 1.75 x 3.5 (1753 x 44 x 89)	Master	9978.470³⁾

2) Includes PIPS 3)Includes PIPS/POPS

Switched PDU (continued)

Voltage	Amps	Receptacles	No. of receptacles	Plug	Overcurrent protection	L x W x H inches (mm)	Master / Expansion	Part No.
208-240V	30	C13, C19	18, 6	L6-30	Breaker	69 x 1.75 x 3.5 (1753 x 44 x 89)	Expansion	9978.467³⁾
208V 3P Delta	20	C13	24	L15-20	Fuse	69 x 1.75 x 3.5 (1753 x 44 x 89)	Master	9970.773
208V 3P Delta	20	C13	24	L15-20	Fuse	69 x 1.75 x 3.5 (1753 x 44 x 89)	Expansion	9970.774
208V 3P Delta	30	C13	24	L15-30	Fuse	69 x 3.5 x 3.5 (1753 x 89 x 89)	Master	9970.777
208V 3P Delta	30	C13	24	L15-30	Fuse	69 x 3.5 x 3.5 (1753 x 89 x 89)	Expansion	9970.778
208V 3P Delta	30	C13, C19	18, 6	L15-30	Breaker	69 x 1.75 x 3.5 (1753 x 44 x 89)	Master	9978.475³⁾
208V 3P Delta	30	C13, C19	18, 6	L15-30	Breaker	69 x 1.75 x 3.5 (1753 x 44 x 89)	Expansion	9978.473³⁾
208V 3P Delta	50	C13, C19	12, 12	CS8365C	Breaker	69 x 3.5 x 3.5 (1753 x 89 x 89)	Master	9978.479
208V 3P Delta	50	C13, C19	12, 12	CS8365C	Breaker	69 x 3.5 x 3.5 (1753 x 89 x 89)	Expansion	9978.477
208V 3P Delta	50	C13	48	Cord Set	Breaker	69 x 1.75 x 2.25 (1753 x 44 x 57)	Master	9978.480
208V 3P Delta	50	C13	48	Cord Set	Breaker	69 x 1.75 x 2.25 (1753 x 44 x 57)	Expansion	9978.478
208V 3P Delta	60	C13, C19	12, 12	IEC Blue, 9hr 3P+G	Breaker	69 x 1.75 x 2.25 (1753 x 44 x 57)	Master	9978.487
208V 3P Delta	60	C13, C19	12, 12	IEC Blue, 9hr 3P+G	Breaker	69 x 1.75 x 2.25 (1753 x 44 x 57)	Expansion	9978.481
208V 3P Delta	60	C13	48	Cord Set	Breaker	69 x 1.75 x 3.5 (1753 x 44 x 89)	Master	9978.489
208V 3P Delta	60	C13	48	Cord Set	Breaker	69 x 1.75 x 3.5 (1753 x 44 x 89)	Expansion	9978.483
208V 3P Wye	20	C13	24	L21-20	Fuse	69 x 1.75 x 3.5 (1753 x 44 x 89)	Master	9970.771
208V 3P Wye	20	C13	24	L21-20	Fuse	69 x 1.75 x 3.5 (1753 x 44 x 89)	Expansion	9970.772
208V 3P Wye	30	C13	24	L21-30	Fuse	69 x 3.5 x 3.5 (1753 x 89 x 89)	Master	9970.775
208V 3P Wye	30	C13	24	L21-30	Fuse	69 x 3.5 x 3.5 (1753 x 89 x 89)	Expansion	9970.776
208V 3P Wye	30	C13, C19	18, 6	L21-30	Breaker	69 x 1.75 x 3.5 (1753 x 44 x 89)	Master	9978.476³⁾
208V 3P Wye	30	C13, C19	18, 6	L21-30	Breaker	69 x 1.75 x 3.5 (1753 x 44 x 89)	Expansion	9978.474³⁾
208V 3P Wye	60	C13, C19	12, 12	IEC, Blue 9hr, 3P+N+G	Breaker	69 x 1.75 x 3.5 (1753 x 44 x 89)	Master	9978.488
208V 3P Wye	60	C13, C19	12, 12	IEC, Blue 9hr, 3P+N+G	Breaker	69 x 1.75 x 3.5 (1753 x 44 x 89)	Expansion	9978.482
208V 3P Wye	60	C13	48	Cord Set	Breaker	69 x 3.5 x 3.5 (1753 x 89 x 89)	Master	9978.490
208V 3P Wye	60	C13	48	Cord Set	Breaker	69 x 3.5 x 3.5 (1753 x 89 x 89)	Expansion	9978.486

2) Includes PIPS 3) Includes PIPS/POPS

Accessories

Temperature/Humidity Sensor	Description	Cable length inches (mm)	Packs of	Part No.
■ Plugs into a Smart/Switched Master PDU	Cord with temperature and humidity probe	118 (3000)	1	9970.815
Power Cord	Receptacles	Length inches (mm)	Packs of	Part No.
■ For 20 Amp PDUs	C19/L6-20P	117 (4500)	1	9970.811
	C19/L5-20P	98 (2500)	1	9970.812
	C19/5-20P	98 (2500)	1	9970.813
	C19/5-15P	118 (3000)	1	9970.814
Button Mount Bracket	Description		Packs of	Part No.
■ Enables tool-less installation of PDUs ■ Allow 0 U mounting of PDUs ■ Black, E-coated	0 U, dual recessed button mount bracket		2	9963.800

Rittal Corporation

Urbana, Ohio • Houston, Texas • Sparks, Nevada • USA

Toll-free: 800-477-4000 • Fax: 800-477-4003 • Email: rittal@rittal.us • Online: www.rittal.us