Eaton Rack PDU G4

Enterprise-quality power distribution, global compatibility

PDU G4 – Built for Enterprise

- High-density, enterprise-quality power distribution

- Eaton PDU G4 offers simplicity in design without compromising on any technological capabilities

- The Eaton PDU G4 product line is versatile and enables users to standardize global operations on one power distribution platform

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# Rack PDU G4: features and functionality

High-density, enterprise-quality power distribution

- Options from 5 to 23 kVA, single-phase or three-phase (Delta and Wye)

- Managed technology (outlet metering + switching)

- Metered input technology (metering at the breaker level)

- Network card module is hot-swappable and upgradeable

High-density, enterprise-quality power distribution

- Best-in-class 42 outlets in 42U (24 C13 + 18 C39)
- 24-outlet designs available in 42U or shorter-length chassis
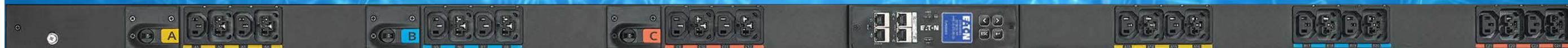
Low-profile design

- 2 in. width, 2.56 in. depth at circuit breakers, 72 in. height – fits in a 42U enclosure (52 x 65 x 1829 mm)

- Low-profile circuit breakers prevent interference with servers, storage or networking equipment

- Circuit breakers and outlets are evenly distributed for easy cable routing

Breakers

Breakers

Depth: 2.56 in. (65 mm)

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C39 combo outlet

- Dual capability to act as C13 or C19

- Flexibility reduces total outlets needed

- High contact retention so plugs won't fall out

- P-lock cable compatibility for full locking

- Alternating phase sections distribute power evenly across six groups of seven outlets

C39
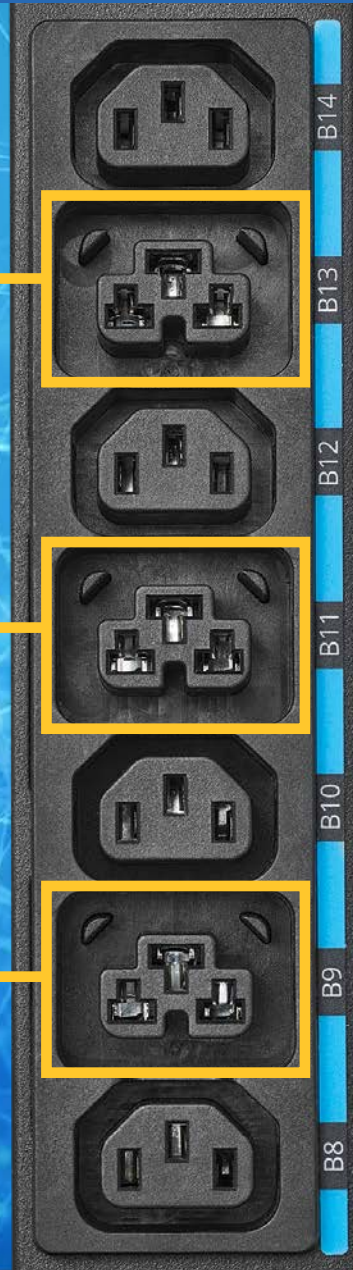
Management and cybersecurity

- Comprehensive power management with market-leading cybersecurity

- Shorten response time with automation and remote management

- Proactively address power problems before they become downtime

- Minimize cybersecurity vulnerabilities through hardware root of trust

Cybersecurity

- **Zero Trust architecture**
  Enables secure boot and complete hardware root of trust to mitigate cybersecurity risk

- **User configurable firewall**
  Reduces an organization's attack surface and helps meet cybersecurity compliance requirements

- **REST API**
  Easily integrates with native systems and automates M2M interactions

PDU G4 network card (GNM) and platform

## Cybersecurity (continued)

- **Chain-of-trust encryption and secure firmware boot capability**
  Prevent PDU G4 from being a cyberattack vulnerability point

- **Network card**
  Can only be upgraded by genuine encrypted Eaton firmware

- **USB-C port**
  Enables direct computer connection to the PDU control module for a more secure method than connecting via Ethernet

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PDU management feature/function

- **Remote management**
  Manage PDUs from anywhere (via desktop/mobile software platform)

- **Remote on/off**
  Power cycling/sequencing

- **Outlet metering**
  Metering and switching at the individual outlet level, providing granular power data and precise control of power delivery

- **Network cascading**
  Connect up to 40 PDUs from a single network port
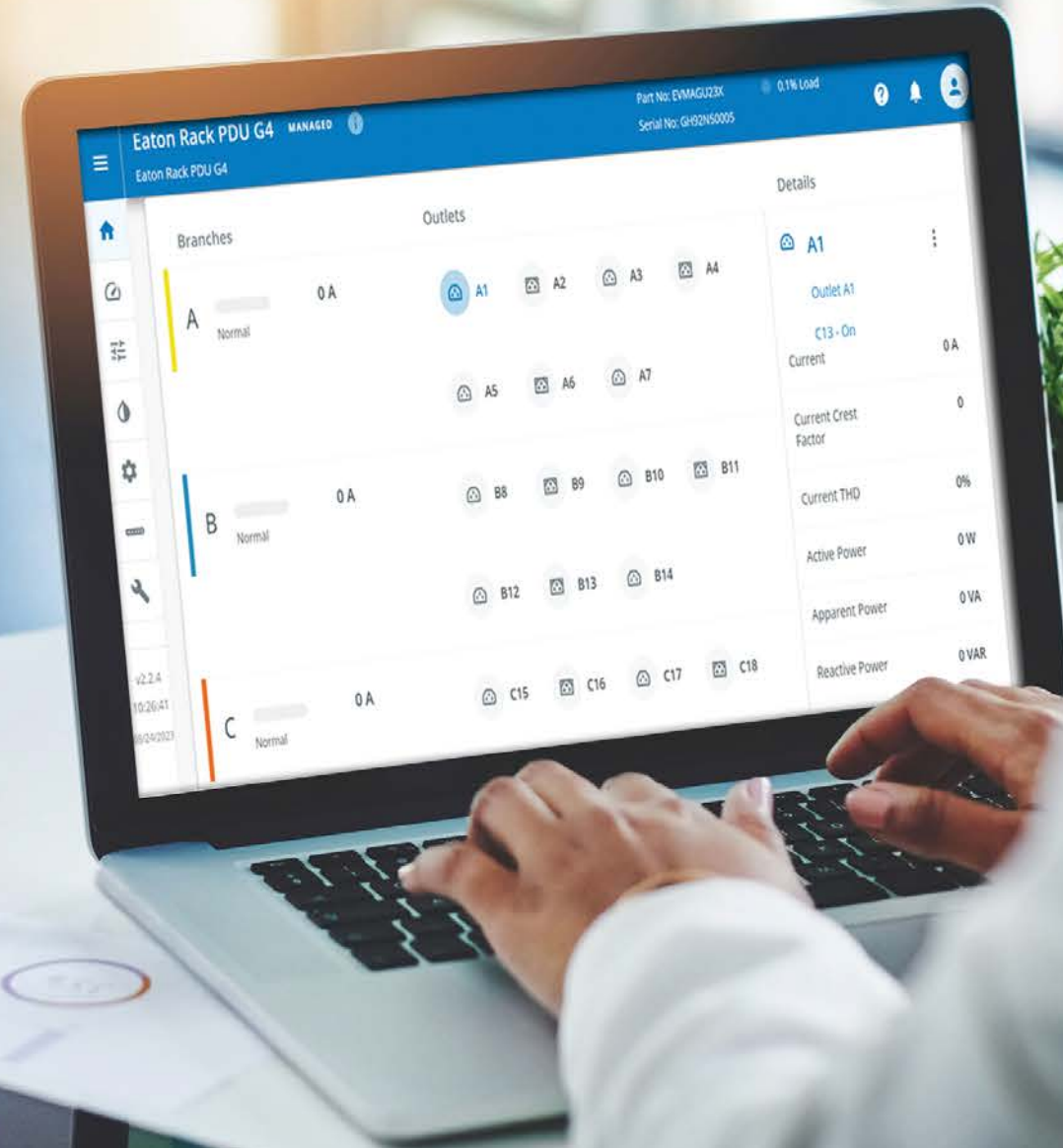
PDU G4 network card (GNM) and platform

PDU Management feature/function

- **Hot-swap Network Module**
  Replace or upgrade with no loss
  of power to outlets

- **Replace or upgrade with no loss
  of power to outlets**
  High accuracy (+/- 1%) measurement
  of voltage, current, power and energy
  for each phase, breaker and outlet

- **Zero-touch provisioning**
  Auto-configuration commissions
  devices faster, saving time
  exponentially in large-scale deployment

- **Pixel LCD Display**
  Set IP address, rotate display, control
  outlets, view alarms and read current,
  voltage, power and energy

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Metering down to the outlet

- Phase, circuit breaker and outlet metering
  - Balance phases and circuit breakers
- Alarm for overload to prevent circuit breaker trip or detect loss of power at the outlet
- Metering on local LCD or over network
- Measure power uptime at the outlet for QOS metrics

Outlet on/off control

- **Control inrush through sequenced power on**

- **Remotely power cycle locked equipment**

- **Securely power off unused outlets**

- **Bi-stable latching relays are highly reliable and fault tolerant**

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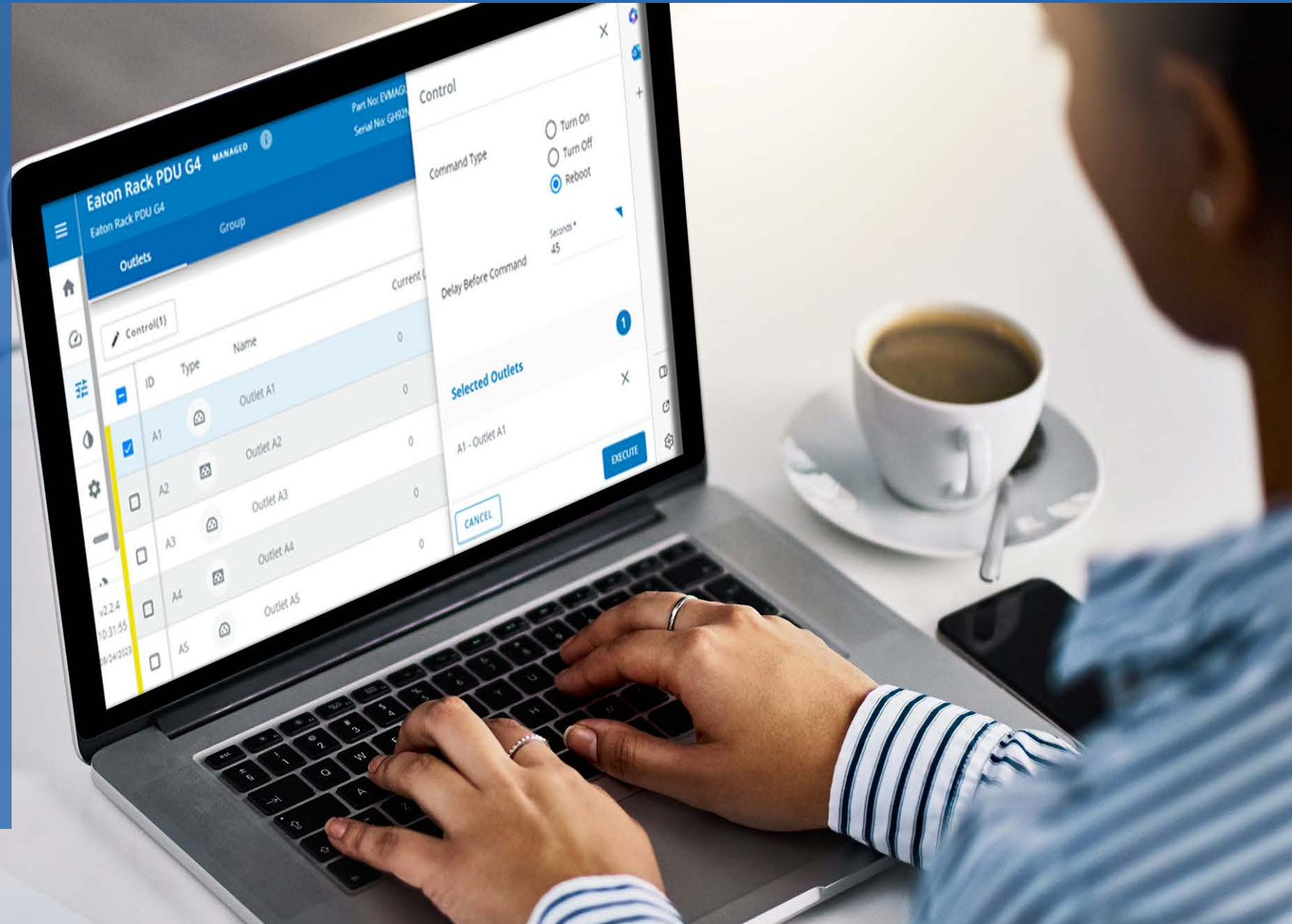
PDU G4 model list

Catalog PN	Technology	Plug	Phase	Voltage	Current (Derated)	Outlets	kW Rating
CORDED MODELS, BY OUTPUT							
EVMAL620A	Managed	C20 Plug/L6-20P	1P/2P	100-240V	16A	12xC13 12xC39	3.8
EVMIL620A	Metered	C20 Plug/L6-20P	1P/2P	100-240V	16A	12xC13 12xC39	3.8
EVMAL630A	Managed	L6-30P	1P	208V	24A	12xC13 12xC39	5
EVMAL630B	Managed	L6-30P	1P	208V	24A	10xC13 10xC39	5.8
EVMAL630X	Managed	L6-30P	1P	208V	24A	24xC13 18xC39	5.8
EVMIL630X	Metered	L6-30P	1P	208V	24A	24xC13 18xC39	5.8
EVMA2120A	Managed	L21-20P	3P	120/208V	16A	12xC13 12xC39	5.8
EVMI2120X	Metered	L21-20P	3P	120/208V	16A	24xC13 18xC39	5.8
EVMA1530A	Managed	L15-30P	3P	208V	24A	12xC13 12xC39	8.6
EVMA1530X	Managed	L15-30P	3P	208V	24A	24xC13 18xC39	8.6
EVMA2130A	Managed	L21-30P	3P	120/208V	24A	12xC13 12xC39	8.6
EVMA2130X	Managed	L21-30P	3P	120/208V	24A	24xC13 18xC39	8.6
EVMI1530X	Metered	L15-30P	3P	208V	24A	24xC13 18xC39	8.6
EVMI2130X	Metered	L21-30P	3P	120/208V	24A	24xC13 18xC39	8.6
EVMA8365X	Managed	CS8365	3P	208V	24A	24xC13 18xC39	14.4
EVMI8365X	Metered	CS8365	3P	208V	40A	24xC13 18xC39	14.4
EVMA4609X	Managed	460P9W	3P	208V	48A	24xC13 18xC39	17.3
EVMA4609X- 06	Managed	460P9W	3P	208V	48A	24xC13 18xC39	17.3
EVMI4609X	Metered	460P9W	3P	208V	48A	24xC13 18xC39	17.3
EVMI4609X-06	Metered	460P9W	3P	208V	48A	24xC13 18xC39	17.3
EVMAG332C	Managed	532P6W	3P	240/415V	48A	24xC13 24xC39	17.3
EVMAG332X	Managed	532P6W	3P	240/415V	24A	24xC13 18xC39	17.3
EVMIG332X	Metered	532P6W	3P	240/415V	24A	24xC13 18xC39	17.3
UNIVERSAL MODELS, BY OUTPUT							
EVBAGU23X-E	Basic	UTG 8-pin	1P/3P	Varies by input cable	24xC13	18xC39	5-23
EVMIGU23A-E	Metered	UTG 8-pin	1P/3P	Varies by input cable	12xC13	12xC39	5-23
EVMIGU23X	Metered	UTG 8-pin	1P/3P	Varies by input cable	24xC13	18xC39	5-23
EVMIGU23X-E	Metered	UTG 8-pin	1P/3P	Varies by input cable	24xC13	18xC39	5-23
EVMAGU23A-E	Managed	UTG 8-pin	1P/3P	Varies by input cable	12xC13	12xC39	5-23
EVMAGU23X	Managed	UTG 8-pin	1P/3P	Varies by input cable	24xC13	18xC39	5-23
EVMAGU23X-E	Managed	UTG 8-pin	1P/3P	Varies by input cable	24xC13	18xC39	5-23

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Universal Input Rack PDU (UPDU) G4

Universal Input Rack PDU (UPDU) G4

- The most flexible PDU

- Universal power input

- Detachable cord options for 5 to 23 kVA, single-phase or three-phase Delta, or three-phase Wye

- Standardize global business on one PDU

Global design and safety approvals

- **Source one rack PDU globally and attach appropriate cord regionally**

- **UPDU certifications:**
  - TUV: cTUVus mark with compliance to ANSI/UL 62368-1
  - CB Certificate and Report to IEC/EN 62368-1
  - CE Declaration, including compliance for safety, EMC and RoHS

- **Universal input cable certifications:**
  - UL: cRUus mark with compliance to UL 817 (UL file E529492)
  - CE declaration for compliance to safety and RoHS

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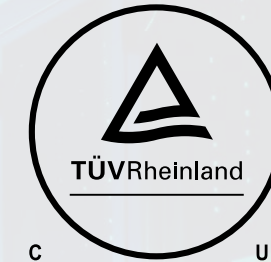
Universal input cables

- Input connector determines single- or three-phase wiring

- UL 817 approved cord sets tested and rated for disconnect under load

- 15 plug options from 5 to 23 kVA with 10 ft. cable

L6-30P cable CBL350-10

360P6W cable CBL362-10

460P9W cable CBL356-10

532P6W cable CBL358-10

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Universal connector

- **Overmolded backshell**
  - Reduced depth versus competitors for less interference
  - Provides high strength with no screws to come loose

- **Connector has robust, locking, mil-aerospace design**

Lower power cables (5 to 11 kVA)

Part number	Plug	Length	Panel breaker	Derated current	Voltage	Region	Power phase	Max power per PDU
CBL350-10	L6-30P	10 ft. (3 m)	30A	24A	208V	AMER	1P	5.0 kVA
CBL354-10	332P6W	10 ft. (3 m)	30A	24A	240V	AMER	1P	5.8 kVA
			32A	32A	230V	EMEA/APAC	1P	7.4 kVA
CBL367-10	L21-20P	10 ft. (3 m)	20A	16A	208V WYE	AMER	3P	5.8 kVA
CBL365-10	L15-30P	10 ft. (3 m)	30A	24A	208V Delta	AMER	3P	8.6 kVA
CBL351-10	L21-30P	10 ft. (3 m)	30A	24A	208/120V WYE	AMER	3P	8.6 kVA
CBL362-10	360P6W	10 ft. (3 m)	60A	48A	240V	AMER	1P	11.5 kVA
CBL355-10	516P6W	10 ft. (3 m)	20A	16A	240/415V WYE	AMER	3P	11.5 kVA
			16A	16A	230/400V WYE	EMEA/APAC	3P	11.0 kVA

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Higher power cables (14.4 to 23 kVA)

Part number	Plug	Length	Panel breaker	Derated current	Voltage	Region	Power phase	Max power per PDU
CBL364-06	CS8365	6 ft. (1.8 m)	50A	40A	208V Delta	AMER	3P	14.4 kVA
CBL364-10	CS8365	10 ft. (3 m)	50A	40A	208V Delta	AMER	3P	14.4 kVA
CBL356-06	460P9W	6 ft. (1.8 m)	60A	48A	208V Delta	AMER	3P	17.3 kVA
CBL356-10	460P9W	10 ft. (3 m)	60A	48A	208V Delta	AMER	3P	17.3 kVA
CBL366-10	560P9W	10 ft. (3 m)	60A	48A	208/120V WYE	AMER	3P	17.3 kVA
CBL357-10	Pigtail	10 ft. (3 m)	60A	48A	208V Delta	AMER	3P	17.3 kVA
CBL368-10	L22-30P	10 ft. (3 m)	30A	24A	240/415V WYE	AMER	3P	17.3 kVA
CBL358-10	532P6W	10 ft. (3 m)	30A	24A	240/415V WYE	AMER	3P	17.3 kVA
			32A	32A	230/400V WYE	EMEA/APAC	3P	22.1 kVA
CBL360-10	560P6W	10 ft. (3 m)	40A or 60A	32A	240/415V WYE	AMER	3P	23.0 kVA
CBL354-10	332P6W	10 ft. (3 m)	16A	16A	230/400V WYE	EMEA/APAC	3P	11.0 kVA

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Benefits of UPDU in the data center

Colocation data center

- Competitive advantage by stocking PDU for fast deployment after lease signing

- Cables define power rating of the rack – upgrading power only requires cable and bus tap box swap

- Fully managed – allows the end customer to monitor power and control devices remotely

Global enterprise

- **Challenge of managing data centers in different regions**

- **Standardize one PDU for all regions with only changing the power cord**

- **Simplifies deployment and management by having a single power profile**

Rack system integrator

- **Storage or compute systems require location-specific power input**

- **System can be built and tested without knowing end destination**

- **Attach country-specific cords before shipping system**

- **Eliminates challenges associated with global system sales**

Rack PDU G4 resources

- Rack PDU selector

- Rack PDU configurator

- UPDU brochure

- Rack PDU G4 topic page

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Summary

- Eaton Rack PDU G4 launched in October 2023

- Universal input option is highly flexible, allowing customers to deploy a single rack PDU globally

- The C39 outlet accommodates either a C14 or C20 plug

- 42 outlets in a 42U form factor with low-profile circuit breakers

- Fully managed for outlet switching and outlet metering

- Sustainable engineering, operation, packaging and shipping

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Additional resources

- PDU G4 topic page

- UPDU topic page

- UPDU G3 brochure (PDF)

- UPDU overview video

- UPDU installation video

- UPDU infographic

Questions?

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