Switched eConnect® PDUs

Switched eConnect® PDUs provide remote monitoring of power at the rack level and individual outlet control, making it possible to remotely turn power on or off at each outlet.

Reduced Networking Costs and Complexity – Secure Array® allows the use of a single IP address for up to 48 connected PDUs (32 when electronic locks are integrated). Second IP address for the entire array provides failover capability

Resistance to High Temperature – Market-leading temperature ratings of up to 149°F (65°C) ensures reliability when mounted toward hot aisles

Simplified Load Balancing – Phase-balance outlets on three-phase models ensure equal loading across all phases; allows use of shorter equipment power cords for better cable and airflow management

No Accidental Disconnections – Patented, low-profile locking outlets prevent accidental disconnections without requiring special cords

Easy Identification of Failover Unit – Redundancy Pack includes 2 PDUs (one in Black and one in Glacier White) for easy identification of the primary and secondary unit

Electronic Lock Integration – Patented technology seamlessly integrates PDU, environmental sensors and electronic locks into a single hardware and software solution

Gigabit Ethernet – Ensures compatibility with enterprise routers and switches

Latest UL Compliance – Meets UL and IEC 62368 for compliance with new listing requirements for North America and the European Union

Cabinet Preinstallation – Complete ecosystem ships ready for IT equipment integration, and saves deployment time and reduces packaging waste.

Additional Features:

- PDU monitoring and individual outlet switching; outlet grouping
- Field-replaceable controller module for easy serviceability and upgradeability while maintaining power to critical loads; SD-card transfers PDU configuration
- Bistable latching relays for reduced energy consumption and increased service reliability
- Input and branch circuit monitoring with billing-grade +/-1% accuracy
- Onboard GUI, RESTful API, SNMP v1/v2/v3, Command Line Interface (CLI), and native Power IQ® DCIM software integration allows users to easily manage PDUs
- Zero Touch Provisioning (ZTP) automates configuration and provisioning of large deployments of PDUs.
- HTTPs support, RADIUS and LDAP integration for enhanced authentication and security
- Customization capabilities: outlet configurations, color options, power cord length, input connection types and more
- Made in the United States, TAA-compliant

Global Availability

United States
Simi Valley, CA
800-834-4969

Canada
Toronto, Ontario, Canada
+905-850-7770

Europe
Buckinghamshire, UK
+441628 524834

Middle East & Africa
Dubai, UAE
+971-4-2602125

Doha, Qatar
+974-4-267422

Latin America
Mexico City
+52-55-5203-7525
Toll Free within Mexico
800-201-7592
chatsworth.com.co

Asia Pacific
Shanghai
+86 21 6880-0266
chatsworth.com.cn

CHATSWORTH PRODUCTS

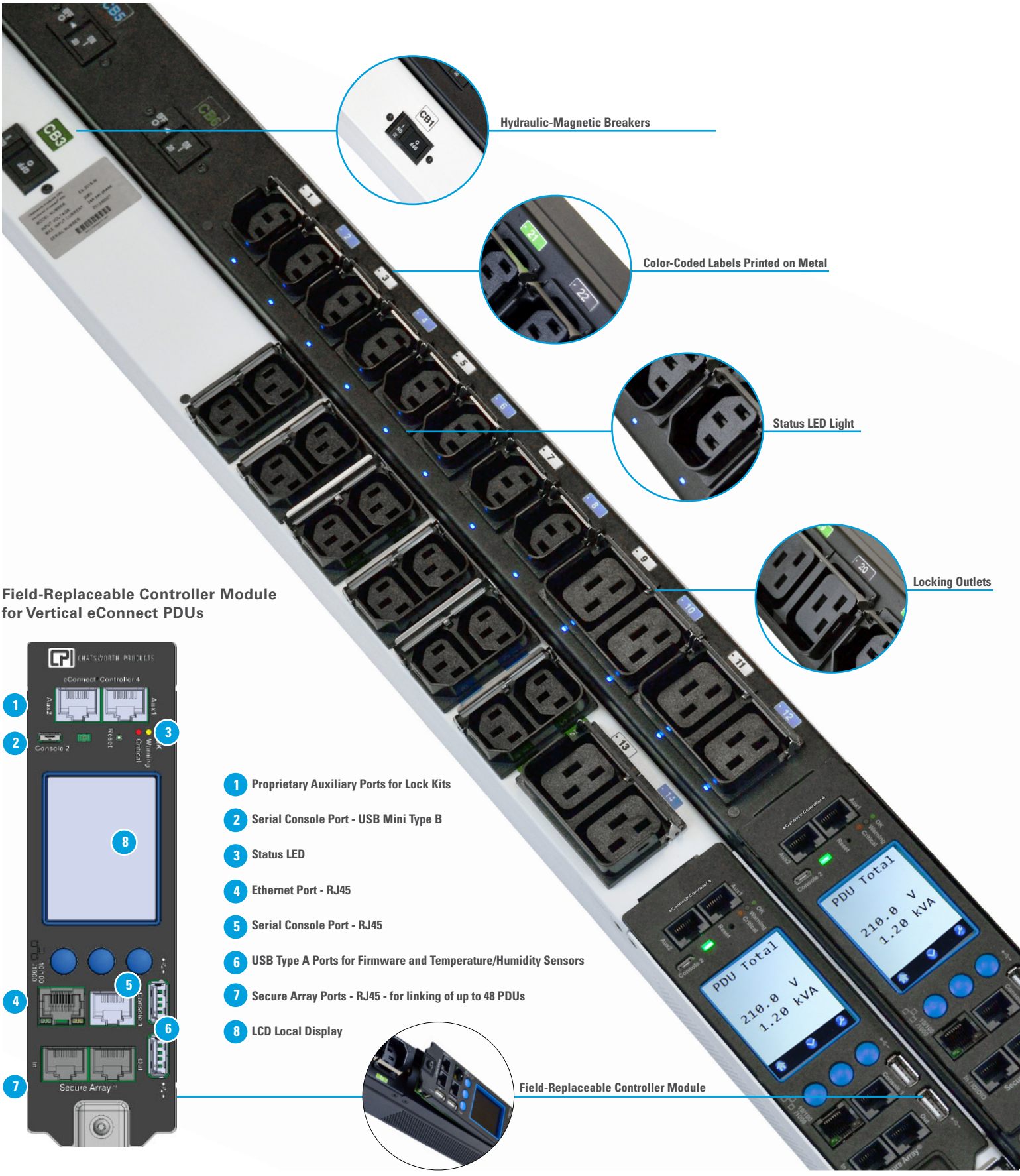
chatsworth.com • techsupport@chatsworth.com

SPECIFICATIONS

Description:	Single-input, vertical rack-mount PDUs
Use:	For indoor use in environmentally controlled areas or within environmental enclosures that maintain Operating Conditions (listed below)
Power Input:	• Alternating current, 50/60 Hz, 10' (3 m) input power cord • Voltage, maximum current, and inlet/plug type varies per model (see ordering table)
Power Capacity:	Specific to PDU, limited by circuit breakers or power input (see ordering table)
Power Output:	NEMA 5-20R, Locking IEC C13 and/or IEC C19 Outlets, specific to PDU with up to 36 outlets (see order table)
Circuit Protection:	• UL 489 listed, single- or two-pole, hydraulic-magnetic breakers available on single- and three-phase models with 30A and above input • 10kAIC breakers on 220-240/380-415 VAC models; 5kAIC for all other models • Low-profile design prevents accidental discharge
Metering:	• Input line currents • Voltage, current, power, energy and power factor at branch circuit • +/- 1% billing-grade • Outlet grouping for power charge back reports
Switching:	• Ability to turn on/off and cycle power to individual or group of outlets using bistable latching relays • Ability to name individual outlets to identify attached equipment • Status indicator LED light for individual outlets
Local Display:	• Liquid Crystal Display (LCD) with power-on autotext orientation, color • Provides PDU information; allows initial IP setup, restore defaults and upgrade firmware • Displays voltage, current, power for input lines and breakers • Displays temperature and humidity when optional environmental sensor (P/N 14665-001) is attached to the PDU • Displays alarm notifications – separate LED flashes red on alarm
Networking:	• 10/100/1000MB Ethernet Port • Secure Array IP Consolidation for up to 48 PDUs with no integrated electronic locks or 32 PDUs with integrated electronic locks • Secure Array IP Consolidation supports alternate/failover network connection through a second PDU • Static IP and Dynamic Host Configuration Protocol (DHCP) Support, Zero Touch Provisioning (ZTP)
Remote Management:	HTTP/HTTPs compatible onboard Web GUI, SNMP v1/v2/v3; RESTful API, CLI Native Software Integration: - Sunbird Power IQ® DCIM and dcTrack DCIM - ZPE Systems Nodegrid Manager™ - RF Code Centerscape Software - Nlyte DCIM
Console Access:	Through serial console port connection and Command Line Interface (CLI)
Security:	• LDAP and Radius Authentication • Password protection • Separate user- and admin-level permissions • Ability to upload custom HTTPs certificate • Secure Shell (SSH)
Controller:	Field-replaceable controller module; SD-card transfers PDU configuration
Firmware:	Flash upgradeable through USB port, Web interface, CLI, API or Power IQ.
Environmental Sensor Integration:	• Supports 2 temperature and humidity sensors • USB Type A port
Electronic Lock Integration:	• Available on PDUs that have AUX ports on the field-replaceable controller module • Front and rear cabinet door locks (ordered separately) connect to AUX ports on the PDU • Door locks are powered from and remotely accessed through the PDU
Mounting:	2 preinstalled tool-less mounting buttons; adjustable positions / Top or bottom power cord entry orientation
Grounding/Bonding:	• Bonded power inlet/plug and external bond connection with a threaded M5 attachment point • Includes a bonding kit for CPI cabinets
Color Options:	• Black or Glacier White • Redundancy Pack includes (1) Black PDU and (1) Glacier White PDU
Operating Conditions:	• Temperature: -13°F – 149°F (-25°C – 65°C) • Relative Humidity: 5% – 95%, noncondensing • Elevation: 0 – 50,000' (0 – 15,000 m)
Storage/Non-operating Conditions:	• Temperature: -13°F – 149°F (-25°C – 65°C) • Relative Humidity: 5% – 95%, noncondensing • Elevation: 0 – 50,000' (0 – 15,000 m)
Shipping Weight:	27 lb (12 kg) single unit; 54 lb (24 kg) Redundancy Pack
Certifications:	UL/cUL/IEC62368, CE (EU), FCC Part 15, Class A, EN 55022, RoHS Compliant
Warranty:	3 years standard with advanced replacement; 2 additional years optional

VERTICAL CONFIGURATION

Use Vertical eConnect PDUs in data centers and equipment rooms with 42U or higher racks, cabinets and enclosures to provide power connections alongside equipment for higher-density applications. Use Redundancy Pack to support redundant power circuits.



Field-Replaceable Controller Module for Vertical eConnect PDUs

1. Proprietary Auxiliary Ports for Lock Kits
2. Serial Console Port - USB Mini Type B
3. Status LED
4. Ethernet Port - RJ45
5. Serial Console Port - RJ45
6. USB Type A Ports for Firmware and Temperature/Humidity Sensors
7. Secure Array Ports - RJ45 - for linking of up to 48 PDUs
8. LCD Local Display

ORDERING INFORMATION

Switched eConnect PDU, Vertical - North America							
Part Number			Input Amperage	Input Plug	Outlets	kW Capacity (UL)	Cabinet Compatibility
Black*	Glacier White*	Redundancy Pack**					
120 Volt, Single-Phase Input							
EA-5001-C	EA-5001-E	EA-5001-CE	20A	C20 Inlet to L5-20	(24) 5-20	1.9 kW	42U & higher
EA-5002-C	EA-5002-E	EA-5002-CE	30A	L5-30	(24) 5-20	2.9 kW	42U & higher
208 Volt, Single-Phase Input							
EA-5069-C	EA-5069-E	EA-5069-CE	20A	C20 Inlet to L6-20	(18) C13 + (6) C19	3.3 kW	42U & higher
EA-5070-C	EA-5070-E	EA-5070-CE	20A	C20 Inlet to L6-20	(24) C13	3.3 kW	42U & higher
EA-5004-C	EA-5004-E	EA-5004-CE	30A	L6-30	(24) C13	5 kW	42U & higher
EA-5012-C	EA-5012-E	EA-5012-CE	30A	L6-30	(18) C13 + (6) C19	5 kW	42U & higher
120/208 Volt, Three-Phase Input* **							
EA-5006-C	EA-5006-E	EA-5006-CE	20A	L21-20	(24) C13	5.7 kW	42U & higher
EA-5014-C	EA-5014-E	EA-5014-CE	20A	L21-20	(18) C13 + (6) C19	5.7 kW	42U & higher
EA-5025-C	EA-5025-E	EA-5025-CE	20A	L21-20	(18) C13 + (6) C19 Outlets + (3) 5-20	5.7 kW	42U & higher
EA-5007-C	EA-5007-E	EA-5007-CE	30A	L21-30	(24) C13	8.6 kW	42U & higher
EA-5015-C	EA-5015-E	EA-5015-CE	30A	L21-30	(18) C13 + (6) C19	8.6 kW	42U & higher
EA-5026-C	EA-5026-E	EA-5026-CE	30A	L21-30	(18) C13 + (6) C19 Outlets + (3) 5-20	8.6 kW	42U & higher
EA-5035-C	EA-5035-E	EA-5035-CE	30A	L21-30	(36) C13	8.6 kW	42U & higher
208 Volt, Three-Phase Input							
EA-5005-C	EA-5005-E	EA-5005-CE	30A	L15-30	(24) C13	8.6 kW	42U & higher
EA-5013-C	EA-5013-E	EA-5013-CE	30A	L15-30	(18) C13 + (6) C19	8.6 kW	42U & higher
EA-5034-C	EA-5034-E	EA-5034-CE	30A	L15-30	(36) C13	8.6 kW	42U & higher
EA-5016-C	EA-5016-E	EA-5016-CE	50A	CS8365	(18) C13 + (6) C19	14.4 kW	42U & higher
EA-5027-C	EA-5027-E	EA-5027-CE	50A	CS8365	(12) C13 + (12) C19	14.4 kW	42U & higher
EA-5136-C	EA-5136-E	EA-5136-CE	50A	CS8365	(36) C13	14.4 kW	45U & higher
EA-5144-C	EA-5144-E	EA-5144-CE	50A	CS8365	(24) C13 + (12) C19	14.4 kW	45U & higher
EA-5017-C	EA-5017-E	EA-5017-CE	60A	IEC 60309 60A 3P+E	(18) C13 + (6) C19	17.2 kW	42U & higher
EA-5028-C	EA-5028-E	EA-5028-CE	60A	IEC 60309 60A 3P+E	(12) C13 + (12) C19	17.2 kW	42U & higher
EA-5137-C	EA-5137-E	EA-5137-CE	60A	IEC 60309 60A 3P+E	(36) C13	17.2 kW	45U & higher
EA-5145-C	EA-5145-E	EA-5145-CE	60A	IEC 60309 60A 3P+E	(24) C13 + (12) C19	17.2 kW	45U & higher
240/415 Volt, Three-Phase Input							
EA-5018-C	EA-5018-E	EA-5018-CE	30A	L22-30	(18) C13 + (6) C19	17.2 kW	42U & higher
EA-5029-C	EA-5029-E	EA-5029-CE	30A	L22-30	(12) C13 + (12) C19	17.2 kW	42U & higher
EA-5038-C	EA-5038-E	EA-5038-CE	30A	L22-30	(36) C13	17.2 kW	42U & higher
EA-5046-C	EA-5046-E	EA-5046-CE	30A	L22-30	(24) C13 + (12) C19	17.2 kW	42U & higher

*Notes: * Shipping weight for each unit is 27 lb (12 kg).*

***Redundancy Pack includes 2 PDUs in Black and Glacier White for easy identification of the primary and secondary unit; shipping weight is 54 lb (24 kg).*

****Convenience 5-20 outlets do not provide monitoring or switching capabilities.*

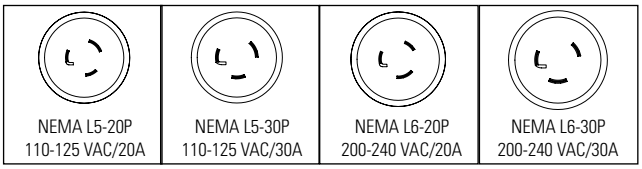
ORDERING INFORMATION

Switched eConnect PDU, Vertical - Worldwide								
Part Number			Input Amperage	Input Plug	Outlets	kW Capacity Worldwide (CE)	kW Capacity North America (UL)	Cabinet Compatibility
Black*	Glacier White*	Redundancy Pack**						
220 - 240 Volt, Single-Phase Input								
EA-5008-C	EA-5008-E	EA-5008-CE	16A	C20 Inlet to IEC 60309 16A 1P+N+E	(24) C13	3.8 kW	3.8 kW	42U & higher
EA-5019-C	EA-5019-E	EA-5019-CE	16A	C20 Inlet to IEC 60309 16A 1P+N+E	(18) C13 + (6) C19	3.8 kW	3.8 kW	42U & higher
EA-5009-C	EA-5009-E	EA-5009-CE	32A	IEC 60309 32A 1P+N+E	(24) C13	7.7 kW	6.1 kW	42U & higher
EA-5020-C	EA-5020-E	EA-5020-CE	32A	IEC 60309 32A 1P+N+E	(18) C13 + (6) C19	7.7 kW	6.1 kW	42U & higher
220 - 240/380 - 415 Volt, Three-Phase Input								
EA-5010-C	EA-5010-E	EA-5010-CE	16/20A	IEC 60309 16/20A 3P+N+E	(24) C13	11.5 kW	11.5 kW	42U & higher
EA-5021-C	EA-5021-E	EA-5021-CE	16/20A	IEC 60309 16/20A 3P+N+E	(18) C13 + (6) C19	11.5 kW	11.5 kW	42U & higher
EA-5030-C	EA-5030-E	EA-5030-CE	16/20A	IEC 60309 16/20A 3P+N+E	(12) C13 + (12) C19	11.5 kW	11.5 kW	42U & higher
EA-5039-C	EA-5039-E	EA-5039-CE	16/20A	IEC 60309 16/20A 3P+N+E	(36) C13	11.5 kW	11.5 kW	42U & higher
EA-5047-C	EA-5047-E	EA-5047-CE	16/20A	IEC 60309 16/20A 3P+N+E	(24) C13 + (12) C19	11.5 kW	11.5 kW	42U & higher
EA-5022-C	EA-5022-E	EA-5022-CE	32A	IEC 60309 32A 3P+N+E	(18) C13 + (6) C19	23 kW	18.4 kW	42U & higher
EA-5031-C	EA-5031-E	EA-5031-CE	32A	IEC 60309 32A 3P+N+E	(12) C13 + (12) C19	23 kW	18.4 kW	42U & higher
EA-5040-C	EA-5040-E	EA-5040-CE	32A	IEC 60309 32A 3P+N+E	(36) C13	23 kW	18.4 kW	42U & higher
EA-5048-C	EA-5048-E	EA-5048-CE	32A	IEC 60309 32A 3P+N+E	(24) C13 + (12) C19	23 kW	18.4 kW	42U & higher

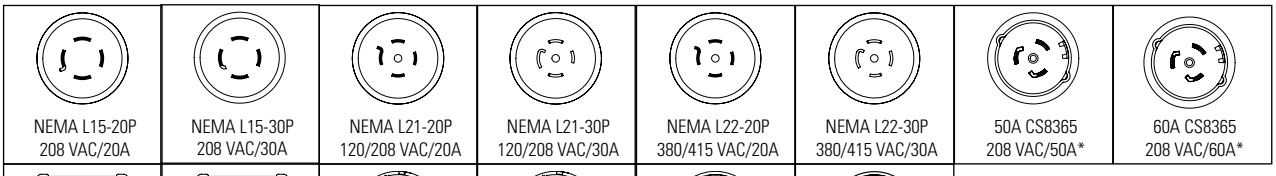
*Notes: * Shipping weight for each unit is 27 lb (12 kg).*
***Redundancy Pack includes 2 PDUs in Black and Glacier White for easy identification of the primary and secondary unit; shipping weight is 54 lb (24 kg).*

PLUG/INLET TABLE

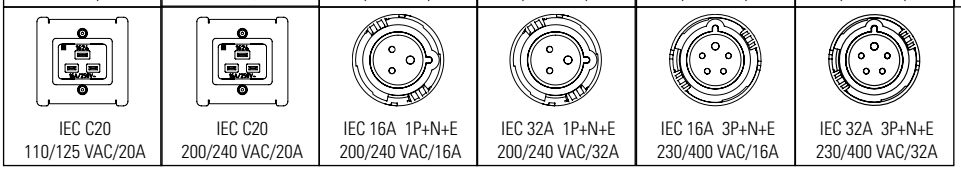
Single-Phase/ Locking



Three-Phase/ Locking



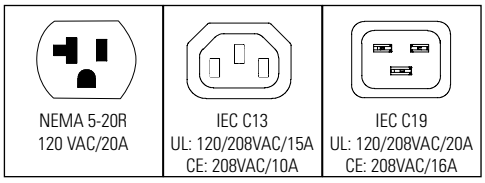
Power Inlet Universal/ Locking



** Note: 50A CS8365 is rated for 50A, but maximum input is 35A on three-breaker PDUs.*

POWER RECEPTACLE/OUTLET TABLE

Receptacles/ Outlets



ACCESSORIES

POWER MANAGEMENT, ENVIRONMENTAL MONITORING AND PHYSICAL SECURITY INTEGRATION

eConnect® RFID Electronic Lock Kit

Integrate cabinet access control along with power management and environmental monitoring under a single network connection, one user interface and one user database for dramatically reduced deployment savings. Fully compatible with DCIM software. Available on vertical Monitored, Monitored Pro, Switched and Switched Pro eConnect PDUs that have Field-Replaceable Controller Modules with AUX ports..

Part Number	Description	Shipping Weight lb (kg)
14666-001	eConnect® RFID Electronic Lock Kit For ZetaFrame Cabinets	3 (1.4)

Note: Order your ZetaFrame cabinet with eConnect PDUs and RFID Electronic Lock Kit preinstalled.

Power IQ® (PIQ) for eConnect

Power IQ® is a data center energy, power, environmental and access control monitoring software that provides out-of-the-box support for eConnect PDUs, Networked Control Module as well as devices from many other manufacturers.

Power IQ for eConnect Software and License, With 1-Year Maintenance Plan			
Part Number	Number of Licenses	Part Number	Number of Licenses
36603-001	Up to 10 Devices	36603-020	Up to 200 Devices
36603-002	Up to 20 Devices	36603-030	Up to 300 Devices
36603-005	Up to 50 Devices	36603-040	Up to 400 Devices
36603-010	Up to 100 Devices	36603-050	Up to 500 Devices

USB Temperature and Humidity Sensor

Attaches to the USB port in the PDUs.

Additional Accessories		
Part Number	Description	Shipping Weight lb (kg)
14665-001	USB Temperature and Humidity Sensor	3 (1.4)

Extended Limited Warranties

Extended Limited Warranties on CPI-Branded Electronic products, available for two additional years beyond the expiration of the Original Warranty Period (3 years).

Contact CPI Customer Service, or visit chatsworth.com/warranty for more information.

Part Number	Description
L1-2YEXTWAR-ELECTRONICS-C	2-Year Warranty Extension for PDUs with MSRP up to $1700
L2-2YEXTWAR-ELECTRONICS-C	2-Year Warranty Extension for PDUs with MSRP $1701 - $3400
L3-2YEXTWAR-ELECTRONICS-C	2-Year Warranty Extension for PDUs with MSRP > $3400

Field-Replaceable Controller Module

Field-replaceable controller module for eConnect® Power Distribution Unit (PDU). Compatible with eConnect Monitored, Monitored Pro, Switched or Switched Pro eConnect PDUs. Allows replacement of controller module while maintaining power to critical loads. Ability to use an SD-card to transfer PDU configuration.

Part Number	Description	Shipping Weight lb (kg)
14676-001	eConnect Controller 4 (MCM4) for Vertical eConnect PDUs	1 (0.5)

Note: Compatible with PDU P/Ns: EA-3xxx, EA-4xxx, EA-5xxx, EA-6xxx.

+ power

Order locks and PDUs preinstalled into your cabinet. Add power. Make it easy.

Simplify ordering, shipping and installation by requesting eConnect PDUs to be installed in CPI's ZetaFrame Cabinets before they leave the factory. Request Redundancy Pack for easy identification of primary and secondary units.

For a complete list of eConnect PDU models, visit chatsworth.com/power

CHATSWORTH PRODUCTS

While every effort has been made to ensure the accuracy of all information, CPI does not accept liability for any errors or omissions and reserves the right to change information and descriptions of listed services and products.

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