CHATSWORTH PRODUCTS

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.

KEY FEATURES

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.

R**esistance 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.

Available in Vertical Configurations.

Additional Features:

• Individual outlet monitoring; 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), RedFish, 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, 802.1x support, RADIUS and LDAP integration for enhanced authentication and security

• Customization capabilities: outlet configurations, color options, power cord length, input connection types and more

• Patent: chatsworth.com/patents

• Made in the United States, TAA-compliant

PROUDLY MADE IN AMERICA
with Globally Sourced Components

Availability: US, Canada, Latin America, Europe, Middle East & Africa

United States & Canada	**Latin America**	**Europe**	**Middle East & Africa**	**Asia Pacific**
Simi Valley, CA	Mexico City, Mexico	Buckinghamshire	Dubai, UAE	Jing'an District,
800-834-4969	+52-55-5203-7525	England, UK	+971-4-2602125	Shanghai, China
Toronto, Ontario, Canada	Toll Free within Mexico	+44-1628-524-834	Doha, Qatar	+86 21 6880-0266
+905-850-7770	800-201-7592		+974-4-267422	chatsworth.com.cn
chatsworth.com	chatsworth.com.co			
techsupport@chatsworth.com				

|	
Description:	Single-input, vertical and horizontal 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 ft (3 m) input cord or Terminal Block available as standard; custom lengths between 3 - 15 ft. available • 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 48 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 • Low-profile design prevents accidental disconnection
Metering:	• Input line currents • Voltage, current, power, energy and power factor at branch circuits • +/- 1% billing-grade
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 • Grouping of outlets for consolidated power control
Local Display: (Vertical PDUs only)	• 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, RedFish
	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) • 802.1x Support
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 two Temperature & Humidity sensors • USB Type A ports
Electronic Lock Integration:	• Front and rear cabinet door locks (ordered separately) connected to AUX ports on the PDU • Door locks are powered from and remotely accessed through the PDU
Mounting:	Vertical PDUs: 2 preinstalled tool-less mounting buttons; adjustable positions / Top or bottom power cord entry orientation Horizontal PDUs: Include rack-mount brackets for 19"EIA (482.6 mm) racks
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 available as standard options; other colors available as custom solutions • Redundancy Pack includes (1) Black PDU and (1) Glacier White PDU
Operating Conditions:	• Temperature: 32°F – 149°F (0°C – 65°C) at Input Power Rating (kW) • Relative Humidity: 5% – 95%, noncondensing • Elevation: 0 – 10,000' (0 – 3,000 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:	Vertical PDUs: 27 lb (12 kg) single unit; 54 lb (24 kg) Redundancy Pack
Certifications:	NEMKO certified to UL/IEC62368, CE (EU), FCC Part 15, Class A, EN 55022, RoHS Compliant • Patent: chatsworth.com/patents
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.
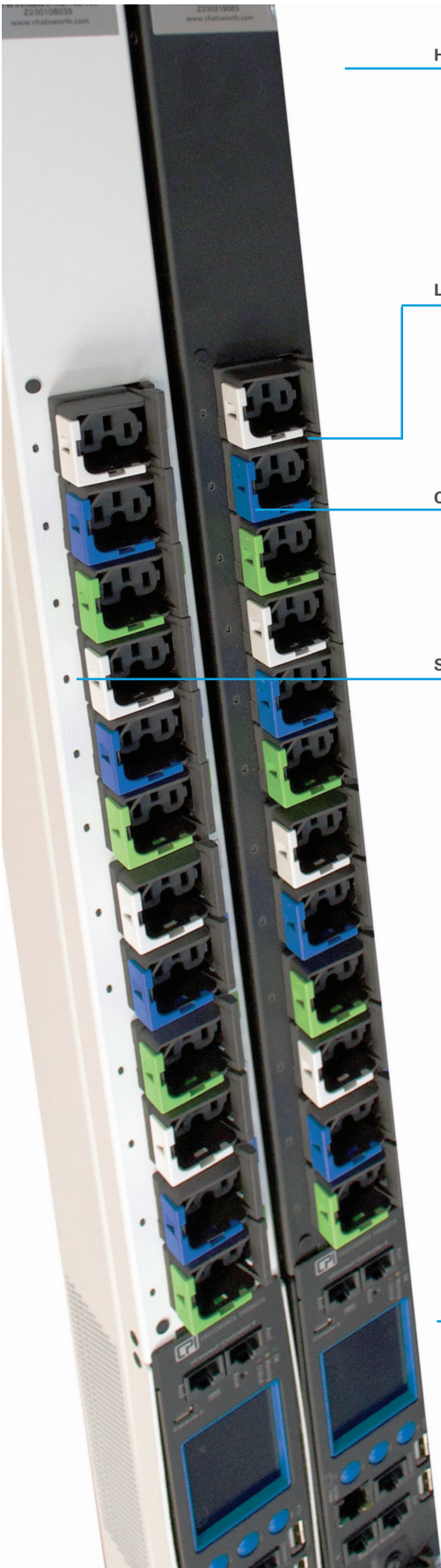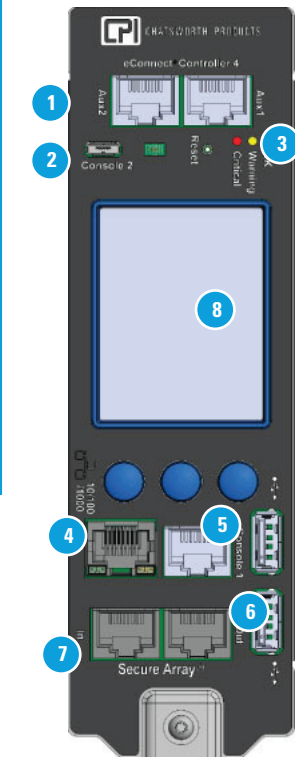
Hydraulic-Magnetic Breakers

Locking Outlets
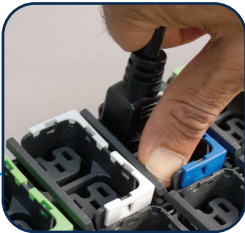
Color-Coded Tabs on Outlets

Status LED Light

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

Part Number			Input Amperage	Input Plug	Outlets	kW Capacity (UL)	Cabinet Compatibility
Black	Glacier White	Redundancy Pack**					
Switched eConnect PDU, Vertical - North America							
120 Volt, Single-Phase Input							
EA-5001-C	EA-5001-E	EA-5001-CE	20A	C20 Inlet to L5-20P	(24) 5-20	1.9 kW	42U & higher
EA-5002-C	EA-5002-E	EA-5002-CE	30A	L5-30P	(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 L6-20P	(18) C13 + (6) C19	3.3 kW	42U & higher
EA-5070-C	EA-5070-E	EA-5070-CE	20A	C20 Inlet to L6-20P	(24) C13	3.3 kW	42U & higher
EA-5004-C	EA-5004-E	EA-5004-CE	30A	L6-30P	(24) C13	5 kW	42U & higher
EA-5012-C	EA-5012-E	EA-5012-CE	30A	L6-30P	(18) C13 + (6) C19	5 kW	42U & higher
120/208 Volt, Three-Phase Input*							
EA-5006-C	EA-5006-E	EA-5006-CE	20A	L21-20P	(24) C13	5.7 kW	42U & higher
EA-5014-C	EA-5014-E	EA-5014-CE	20A	L21-20P	(18) C13 + (6) C19	5.7 kW	42U & higher
EA-5025-C	EA-5025-E	EA-5025-CE	20A	L21-20P	(18) C13 + (6) C19 + (3) 5-20 convenience outlets***	5.7 kW	42U & higher
EA-5007-C	EA-5007-E	EA-5007-CE	30A	L21-30P	(24) C13	8.6 kW	42U & higher
EA-5015-C	EA-5015-E	EA-5015-CE	30A	L21-30P	(18) C13 + (6) C19	8.6 kW	42U & higher
EA-5026-C	EA-5026-E	EA-5026-CE	30A	L21-30P	(18) C13 + (6) C19 + (3) 5-20 convenience outlets***	8.6 kW	42U & higher
EA-5035-C	EA-5035-E	EA-5035-CE	30A	L21-30P	(36) C13	8.6 kW	42U & higher
208 Volt, Three-Phase Input							
EA-5005-C	EA-5005-E	EA-5005-CE	30A	L15-30P	(24) C13	8.6 kW	42U & higher
EA-5013-C	EA-5013-E	EA-5013-CE	30A	L15-30P	(18) C13 + (6) C19	8.6 kW	42U & higher
EA-5034-C	EA-5034-E	EA-5034-CE	30A	L15-30P	(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	L22-30P	(18) C13 + (6) C19	17.2 kW	42U & higher
EA-5029-C	EA-5029-E	EA-5029-CE	30A	L22-30P	(12) C13 + (12) C19	17.2 kW	42U & higher
EA-5038-C	EA-5038-E	EA-5038-CE	30A	L22-30P	(36) C13	17.2 kW	42U & higher
EA-5046-C	EA-5046-E	EA-5046-CE	30A	L22-30P	(24) C13 + (12) C19	17.2 kW	42U & higher

Notes: **Redundancy Pack includes 2 PDUs in Black and Glacier White for easy identification of the primary and secondary unit.
   ***Convenience 5-20 outlets do not provide monitoring or switching capabilities.
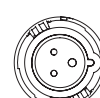
| Switched eConnect PDU, Vertical - Worldwide								
Part Number			Input Amperage	Input Plug	Outlets	kW Capacity Worldwide (CE)	kW Capacity North America (UL)	Cabinet Compatibility
Black	Glacier White	Redundancy Pack**						
220 - 240 Volt, Single-Phase Input								
EA-5008-C	EA-5008-E	EA-5008-CE	16A	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: **Redundancy Pack includes 2 PDUs in Black and Glacier White for easy identification of the primary and secondary unit.*

PLUG/INLET TABLE

Single-Phase

NEMA L5-20P 110-125 VAC/20A | NEMA L5-30P 110-125 VAC/30A | NEMA L6-20P 200-240 VAC/20A | NEMA L6-30P 200-240 VAC/30A | IEC C20 200-240VAC/20A

IEC 16A 1P+N+E 200-240VAC/16A | IEC 32A 1P+N+E 200-240VAC/32A

Three-Phase

NEMA L15-20P 208 VAC/20A | NEMA L15-30P 208 VAC/30A | NEMA L21-20P 120/208 VAC/20A | NEMA L21-30P 120/208 VAC/30A | NEMA L22-20P 240/415 VAC, 20A | NEMA L22-30P 380/415 VAC/30A | 50A CS8365 208 VAC/50A | IEC 60A 3P+E 208V/60A | IEC 100A 3P+E 208V/100A

IEC 16A 3P+N+E 240/415VAC/16A | IEC 32A 3P+N+E 240/415VAC/32A | IEC 60A 3P+N+E 240/415VAC/60A | IEC 100A 3P+N+E 240/415VAC/100A

POWER RECEPTACLE/OUTLET TABLE

Receptacles/Outlets

NEMA 5-20R 120 VAC/20A | IEC C13 100-240V/10A | IEC C19 200-240 VAC/16A

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 and RFID Electronic Lock Kit to be installed in CPI's ZetaFrame® Cabinets before they leave the factory. Request Redundancy Pack for easy identification of primary and secondary units.

chatsworth.com

techsupport@chatsworth.com

800-834-4969

CHATSWORTH PRODUCTS