



## Power Distribution Units

Our complete line of high-quality, high-performance PDUs

# We've Got the Power!

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**Power On.** Best-in-class PDUs for network server racks and cabinets. A full line of basic, metered, switched, and universal PDUs providing all of the same major features as the leading competitors. Enconnex PDUs distribute power to devices in the rack and offer real-time phase and circuit breaker metering and network monitoring of power loads for overload avoidance, capacity and load balancing, and energy use optimization. Our PDUs are regularly stocked and competitively priced. Get high-quality PDUs quickly with Enconnex. You can save even more money by bundling your PDU purchase with our other data center and networking hardware solutions. Enconnex makes doing business easy!

## Selecting a Power Distribution Unit



### Selecting the Right PDU

Find a PDU that meets your requirements based on your equipment's power needs and the power your facility offers to make sure that you are getting the best unit possible.



### Power Availability

Determine facility power availability and matching PDU input plug type.

For example, 415/230VAC, 32A, IEC309 plug



### Power Requirement

Determine IT equipment power requirement.

For example, the number and types of outlets required (C13 vs. C19, NEMA5-20, etc.), total power requirement (kW per rack), and if redundant power source/PDU will be required.



## Enconnex PDUs: Pretty. Darn. Unbeatable.

**Trusted by some of the largest technology companies in the world**, Enconnex PDUs offer superb value, great quality, quick delivery, and consistent performance. Enconnex rack PDUs are simply unbeatable.



Global certifications to meet international needs



Standardized designs across product lines



Remote PDU access management, environmental monitoring, IP address management, and integration with DCIM and BMS



Ability to offer customized units



Reduced lead times



Competitive pricing versus global brands

## Ask Our Power Experts

Our power experts are here to help you determine what PDU features you need and select the right products for each application. Let us show you how our PDUs can help you reduce costs and operational overhead while enabling the remote management of your data center.



## Commitment to Compliance

Our PDUs meet the highest standards for regulatory compliance around the world.

# Power on. With Enconnex certified PDUs.

Customers choose our high-quality PDUs because they are reliable, cost-effective, and carry the regulatory certifications you look for in a high-quality PDU. Enconnex PDUs are used in the largest hyper-scale, enterprise, data center, and network customer locations worldwide. Because a PDU is an electrical device, it must meet specific standards for safe operation in the data center environment. The specific requirements will depend upon the standards developed by government agencies, labs, and industry associations in the region where the PDU is sold.



### UL Listed Mark

UL applies primarily to electrical products sold in the U.S. and Canada. It is not required, but all reputable manufacturers obtain UL certification. Products are tested to ensure that they are reasonably free from the risk of electric shock, fire, and other hazards.



### CE Mark

CE Marks are required for electronic devices to be sold in the European Union (EU). Manufacturers generally self-certify products. The EU low-voltage directive (LVD) also covers PDUs.



### IEC CB Scheme

A global standard in which national certification bodies recognize the testing used by others in the scheme, allowing manufacturers to achieve certification across multiple countries. The new IEC 62368-1 standard applies to PDUs.



### FCC Compliance

FCC compliance is a certification showing that a device's electromagnetic emissions do not create interference or safety hazards. PDUs designed for business or industrial environments are considered Class A digital devices under the rules.



### TAA Compliance

TAA-compliant products must be grown, produced or manufactured in the United States or a “designated country” or “substantially transformed” there. Our new line of basic PDUs are TAA-compliant.



### UKCA Mark

UKCA mark is a new certification that went into effect on Jan. 31, 2020, for products marketed in Great Britain. Currently, its requirements are similar to the CE mark. However, the UKCA mark is expected to become mandatory at the end of the Brexit transition period.



### SGS NRTL Certification

The PDUs manufactured by Enconnex have also obtained certification from SGS, a Nationally Recognized Test Laboratory (NRTL) officially recognized by the American Occupational Safety and Health Administration (OSHA). Third-party testing in SGS accredited facilities determines whether products meet relevant U.S. and Canadian standards. Testing also ensures that product materials and manufacturing meet safety requirements, and the manufacturer has systems in place to guarantee consistent quality.



### NEMKO Certification

Universal PDUs have an additional certification. Our UPDUs have a seven-pin input connector that supports multiple types of input power cables. This makes it possible to adapt the PDU to the input power of a particular data center. Organizations may utilize the same PDU model across their global IT environment. They can also adapt to changing power requirements within a data center.

In addition to meeting the CE, CB and FCC requirements, the universal PDUs from Enconnex are certified by Norges Elektriske Materieellkontroll (NEMKO). Established in 1933 for the safety testing of electrical equipment used in Norway’s public utility network, NEMKO adopted the European Community Directives for product safety. NEMKO became an independent foundation with a council of representatives from industry groups, trade organizations, utility companies, and related entities.

NEMKO provides product development, testing, and certification services and facilitates the international approval of electrical and electronic products. This is ideal for universal PDUs, which by their nature, are sold and used in multiple markets worldwide.

## Supplier Facility Certifications

Enconnex only works with suppliers that carry the following safety and regulatory certifications:

- > ISO9001 2015 - Quality Management System
- > ISO14001 2015 - Environmental Management System
- > ISO45001 2018 - Occupational Health and Safety

Contact us today to learn more about our variety of compliant PDUs.

Learn more at [enconnex.com](https://enconnex.com)

# PDU Features

FEATURES	BASIC	INPUT METERED	SWITCHED	OUTLET METERED	OUTLET METERED, OUTLET SWITCHED
Premium high-temperature branch rated magnetic hydraulic circuit breaker	X	X	X	X	X
Ultra-low profile design	X	X	X	X	X
Alternate-branched outlets	X	X	X	X	X
High-density outlet arrangement	X	X	X	X	X
Real-time phase and circuit breaker metering and monitoring of power loads		X	X	X	X
Remote PDU access management		X	X	X	X
Conforms to the following standards: Redfish API, RESTful API, IPV6 -SSL/ IPsec, SNMP V3		X	X	X	X
Integrates with DCIM and BMS		X	X	X	X
Outlet access control			X		X
Power sequencing			X		X

## Compliance and Standards



COMPLIANCE/STANDARDS		SPECS
EMC Compliance	FCC, ICES	
Safety Compliance	UL, cUL, IEC/UL 60950-1, UL/IEC 62368-1, CE-LVD	
Environmental	RoHS	
WARRANTY		SPECS
PDU Warranty		5 Years

# PDU Configurations

PDU Type	SKU#	Region	Input Voltage	Input Current	Phase Connection	Input Plug Type	Outlet Count C13+C19+N5
TAA Basic	EPB1K39K	NA	120/208V, +6%, -10%	30A (3-Phase, 24A derated)	3 Phase	L21-30P	24 C13 12 C19 3 N5-15/20R
	EPB1G36C	NA	200-240 VAC, +6%, -10%	30A (3-Phase, 24A derated)	3 Phase	L15-30P	24 C13 12 C19
	EPB1K39L	NA	120/208V, +6%, -10%	30A (3-Phase, 24A derated)	3 Phase	L21-30P	30 C13 6 C19 3 N5-15/20R
	EPB1J39K	NA	120/208V, +6%, -10%	20A (3-Phase, 16A derated)	3 Phase	L21-20P	24 C13 12 C19 3 N5-15/20R
	EPB1A36C	NA	200-240 VAC, +6%, -10%	20A (16A derated)	1 Phase	C20	24 C13 12 C19
	EPB1A44A	NA	200-240 VAC, +6%, -10%	20A (16A derated)	1 Phase	C20	44 C13
	EPB1L36C	NA	200-240 VAC, +6%, -10%	50A (3-Phase, 40A derated)	3 Phase	CS8365	24 C13 12 C19
	EPB1M36A	NA	200-240 VAC, +6%, -10%	60A (3-Phase, 48A derated)	3 Phase	60309 460P9	36 C13
	EPB1R36C	NA	200-240 VAC, +6%, -10%	30A (3-Phase, 24A derated)	3 Phase	60309 530P6	24 C13 12 C19
Input Metered	ECX-MV1232060-E	NA	200-240V	30A	1 phase, L-L	NEMA L6-30P	32 + 6
	ECX-MV1730060-G	NA	208V 3ph Wye	30A	3 phase wye, L-L, L-N	NEMA L21-30P	30 + 6
	ECX-MV1824120-L	NA	208V 3ph Delta	60A	3 phase delta, L-L	IEC 60309 460P9 (IP44)	24 + 12
	ECX-MV1236060-E	NA	200-240V	30A	1 Phase, L-L	NEMA L6-30P	36 + 6
	ECX-MV1736060-G	NA	208V 3ph Wye	30A	3 phase wye, L-L	NEMA L21-30P	36 + 6 + (2) NEMA5/20R
	ECX-MV1224040-A	NA/Int'l	200-240V	NAM: 20A; EMEA: 16A	1-Phase	IEC60320 C20 Inlet	24 + 4
	ECX-MV1224040-E	NA	200-240V	30A	1-Phase	NEMA L6-30P	24 + 4

# PDU Configurations

PDU Type	SKU#	Region	Input Voltage	Input Current	Phase Connection	Input Plug Type	Outlet Count C13+C19
Input Metered	ECX-MV1724120-T	Int'l	415/230V 3P Wye	32A	3 Phase	IEC60309 532P6 (IP44)	24 + 12
	ECX-MV1120040-N	Int'l	230V	16A	1 Phase	IEC60309 316P6 (IP44)	20 + 4
	ECX-MV1636060-R	Int'l	400V 3P Wye	16A	3 Phase	IEC60309 516P6 (IP44)	36 + 6
	ECX-MV1236060-P	Int'l	230V	32A	1 Phase	IEC60309 332P6 (IP44)	36 + 6
	ECX-MV1224040-P	Int'l	230V	32A	1 Phase	IEC60309 332P6 (IP44)	24 + 4
	ECX-MV1730121-T	Int'l	400V 3P Wye	16A	3 Phase	IEC60309 516P6 (IP44)	36 + 6
Switched	ECX-SV1812120-K	NA	208V 3ph Delta	50A	3 phase delta, L-L	Hubbell CS8365C	12 + 12
	ECX-SV1712120-T	NA	400V 3ph Wye	32A	3 phase wye, L-N	IEC 60309 532P6 (IP44)	12 + 12
	ECX-SV1212120-E	NA	200-240V	30A	1 phase, L-L	NEMA L6-30P	12 + 12
	ECX-SV1120040-N	Int'l	230V	16A	1 Phase	IEC60309 316P6 (IP44)	20 + 4
	ECX-SV1712120-T	Int'l	415/230V 3P Wye	32A	3 Phase	IEC60309 532P6 (IP44)	12 + 12
	ECX-SV1212121-P	Int'l	230V	32A	1 Phase	IEC60309 332P6 (IP44)	12 + 12
	ECX-SV1220040-P	Int'l	230V	32A	1 Phase	IEC60309 332P6 (IP44)	20 + 4
	ECX-SV1120040-N	Int'l	230V	16A	1 Phase	IEC60309 316P6 (IP44)	20 + 4
	ECX-SV1630060-R	Int'l	400V 3P Wye	16A	3 Phase	IEC60309 516P6 (IP44)	30 + 6

# PDU Configurations

PDU Type	SKU#	Region	Input Voltage	Input Current	Phase Connection	Input Plug Type	Outlet Count C13+C19
Switched	ECX-SV1630060-R	Int'l	400V 3P Wye	16A	3 Phase	IEC60309 516P6 (IP44)	30 + 6
	ECX-SH1108000-A	NA/Int'l	200-240V	NAM: 20A EMEA: 16A	1 Phase	IEC 60320 C20 Inlet	8 C13
Outlet Metered	ECX-PV1812120-L	NA	208V 3ph Delta	60A	3 phase delta, L-L	IEC 60309 460P9 (IP44)	12 + 12
	ECX-PV1724120-T	Int'l	415/230V 3P Wye	32A	3 Phase	IEC60309 532P6 (IP44)	24 + 12
Outlet Metered, Outlet Switched	ECX-WV1224120-E	NA	200-240V	30A	1 phase, L-L	NEMA L6-30P	24 + 12
	ECX-WV1724120-G	NA	208V 3ph Wye	30A	3 phase wye, L-L	NEMA L21-30P	24 + 12
	ECX-WH1208000-E	NA	200-240V	30A	1 phase, L-L	NEMA L6-30P	8 + 0
	ECX-WV1824120-L	NA	208V 3ph Delta	60A	3 phase delta, L-L	IEC 60309 460P9 (IP44)	24 + 12
	ECX-WV1730060-G	NA	208V 3ph Wye	30A	3 phase wye, L-L	NEMA L21-30P	30 + 6
	ECX-WV1730061-G	NA	208V 3ph Wye	30A	3 phase wye, L-L	NEMA L21-30P	30 + 6
	ECX-WV1724121-T	Int'l	415/230V 3P Wye	32A	3 Phase	IEC60309 532P6 (IP44)	24 + 12
	ECX-WV1224080-P	Int'l	230V	32A	1 Phase	IEC60309 332P6 (IP44)	24 + 8
	ECX-WV1220040-P	Int'l	230V	32A	1 Phase	IEC60309 332P6 (IP44)	20 + 4

# UPDU Configurations

PDU Type	SKU#	Region	Input Voltage	Input Current	Phase Connection	Input Plug Type	Outlet Count C13+C19
Basic UPDU	ECX-BV1848000-7	Int'l	NAM, EMEA: 200-240/346-415VAC 3PH WYE  NAM, JP: 200-240VAC 3PH DELTA, 200-240VAC 1PH	EMEA 3PH: 32A  NAM 3PH: 30A (24A derated) 3PH, 50A (40A derated)  NAM 1PH: 30A (24A derated)  JP 3PH: 30A, 40A  JP 1PH: 30A	1 Phase, 3 Phase	Variable	48 C13
	ECX-BH1818000-7	Int'l	NAM, EMEA: 200-240/346-415VAC 3PH WYE  NAM, JP: 200-240VAC 3PH DELTA, 200-240VAC 1PH	EMEA 3PH: 32A  NAM 3PH: 30A (24A derated) 3PH, 50A (40A derated)  NAM 1PH: 30A (24A derated)  JP 3PH: 30A, 40A  JP 1PH: 30A	1 Phase, 3 Phase	Variable	18 C13
Switched UPDU	ECX-SV1812120-7	Int'l	NAM, EMEA: 200-240/346-415VAC 3PH WYE  NAM, JP: 200-240VAC 3PH DELTA, 200-240VAC 1PH	EMEA 3PH: 32A  NAM 3PH: 30A (24A derated) 3PH, 50A (40A derated)  NAM 1PH: 30A (24A derated)  JP 3PH: 30A, 40A  JP 1PH: 30A	1 Phase, 3 Phase	Variable	12 + 12

## Basic TAA PDUs

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The TAA Basic rack PDU distributes power to devices in the rack with premium components. Labeled outlets allow easy identification for reduced connectivity errors. Designed and manufactured in the USA, this TAA-compliant rPDU provides the quality and value needed in the modern data center.



## FEATURES

- TAA Compliant - Made in USA
- Supports the American manufacturing industry
- Domestic manufacturing eliminates supply chain volatility
- Premium components
- Ultra-low-profile design
- P-Lock compatible
- Suited for US government and military applications

## Universal PDUs

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The UPDU offers a cost-effective option for users looking to deploy PDUs across multiple regions with differing input plug standards. For greater flexibility, the UPDU features a universal 7-pin input connector allowing for interchangeable input power cables that can adapt to varying power sources depending on the available facility power. Premium hydraulic-magnetic circuit breakers operate reliably in high temperature environments. Enconnex UPDUs come in basic and switched/metered configurations and offer advanced features such as color-coded IEC outlets with support for W-lock cords.



## FEATURES

- Premium high-temperature branch-rated hydraulic-magnetic circuit breaker
- Ultra-low-profile design
- High-density outlet arrangement

## 7-PIN CONNECTION



# Visual Overview

**Power Plug**  
Top-Bottom Orientation



**Low Profile Design**  
Industry leading design  
saves rack space and  
maximizes access

**1G Networking**

**Dual Network Access (DNA)**  
In 2N configuration for network  
redundancy or tenant/client use

**Hot Swappable  
Network Module**  
For easy maintenance  
and feature upgrades

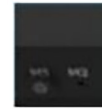


**Large OLED Display**  
Hot-Swappable/Upgradable



**Locking IEC Outlets**  
Provide secure power  
connections for critical  
applications

**Best-in-Class  
Billing Grade Accuracy**  
+/- 1% throughout entire range  
of operational specification



**Flexible Mounting**  
Toolless mount locations  
on both sides and rear of PDU

**Premium Hydraulic-Magnetic  
Circuit Breakers**  
Stable trip characteristics at  
extreme temperatures

**Designed for  
High Temperature**  
Safe, Reliable Operation  
at 60°C with Full Load Rating

**Color Coded Outlets  
and Circuit Breakers**  
For easy source identification



**USB Port**  
SW Upgrade,  
Future Accessories



**Daisy Chain**  
Up to 4 PDUs and  
32 total sensors



**Environmental & Security**  
Ready to support up to eight  
digital plug-and-play sensors  
and/or proximity card access



## Input Metered PDUs

A hot-swappable network management control allows for future upgrades and enhanced MTTR. Up to 8 optional environmental sensors and security access handles can be connected and managed through each PDU.



## FEATURES

Real-time phase and circuit breaker metering and monitoring of power loads

Remote PDU access management

Environmental monitoring to detect temperature, humidity, and water leaks (up-to eight sensors)

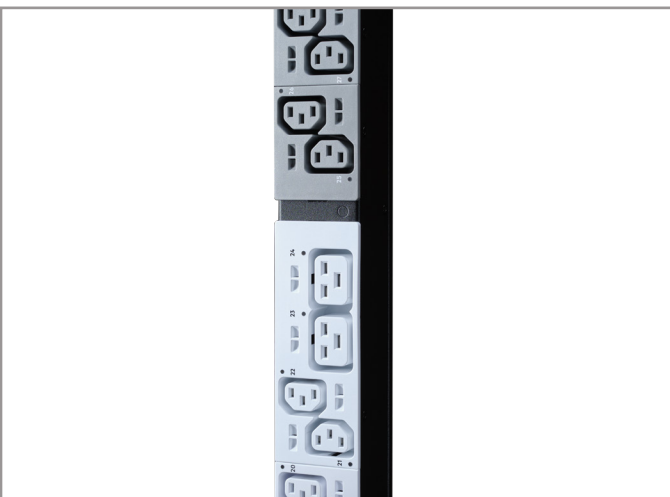
Consolidation of IP address management by daisy-chain of up to four PDU's

Conforms to the following standards: Redfish API, RESTful API, IPV6 -SSL/IPsec, SNMP V3

Integrates with DCIM and BMS

## Switched PDUs

A hot-swappable network management control allows for future upgrades and enhanced MTTR. Up to 8 optional environmental sensors and security access handles can be connected and managed through the PDU.



## FEATURES

Includes all of the features of the Input Metered PDU

Outlet access control

Power sequencing

Premium high-temperature branch-rated hydraulic-magnetic circuit breaker

Ultra-low-profile design

Alternate-branched outlets

High-density outlet arrangement

Real-time phase and circuit breaker metering and monitoring of power loads

Remote PDU access management

Environmental monitoring to detect temperature, humidity, and water leaks (up-to eight sensors)

Consolidation of IP address management by daisy-chain of up to four PDU's

Conforms to the following standards: Redfish API, RESTful API, IPV6 -SSL/IPsec, SNMP V3

Integrates with DCIM and BMS

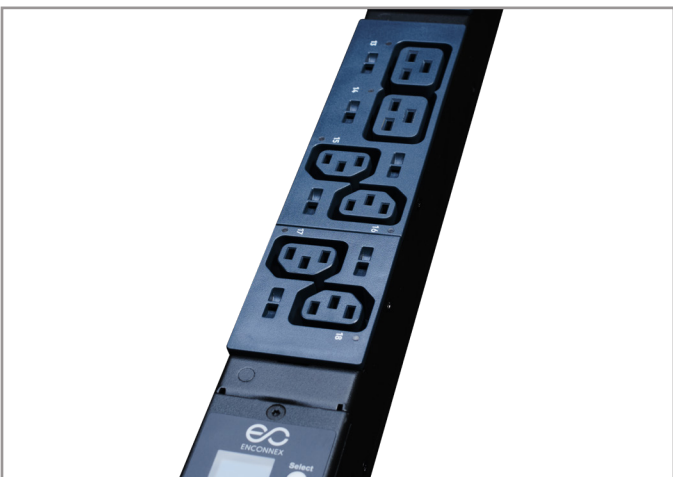
# Outlet Metered PDUs

A hot-swappable network management control allows for future upgrades and enhanced MTTR. Up to 8 optional environmental sensors and security access handles can be connected and managed through the PDU.



# Outlet Metered, Outlet Switched PDUs

Switched outlets allow power-up equipment sequencing, remote reboot, and outlet access control.



## FEATURES

Includes all of the features of the Input Metered PDU

Real-time phase, circuit load, circuit breaker, and outlet level metering

Premium high-temperature branch-rated hydraulic-magnetic circuit breaker

Ultra-low-profile design

High-density outlet arrangement

Remote PDU access management

Environmental monitoring to detect temperature, humidity, and water leaks (up-to eight sensors)

Consolidation of IP address management by daisy-chain of up to four PDU's

Conforms to the following standards: Redfish API, RESTful API, IPV6 -SSL/IPsec, SNMP V3

Integrates with DCIM and BMS

## FEATURES

Includes all of the intelligent features of our PDUs

Real-time phase, circuit load, circuit breaker, and outlet level metering

Premium high-temperature branch-rated hydraulic-magnetic circuit breaker

Ultra-low-profile design

High-density outlet arrangement

Remote PDU access management

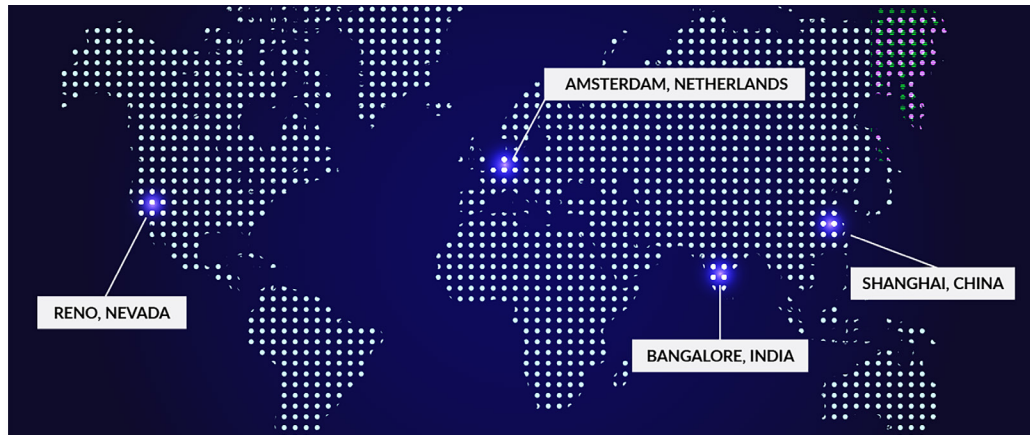
Environmental monitoring to detect temperature, humidity, and water leaks (up-to eight sensors)

Consolidation of IP address management by daisy-chain of up to four PDU's

Conforms to the following standards: Redfish API, RESTful API, IPV6 -SSL/IPsec, SNMP V3

Integrates with DCIM and BMS

## High-quality solutions at the right price.



### The best choice for your next project, build-out, order, or custom product.

Enconnex designs, manufactures, and supplies high-quality IT infrastructure products sold at a reasonable price. Our product lines cover the core components of data center infrastructure, including server racks and cabinets, network cabling, containment, PDUs, UPSs, power cords, and edge computing solutions. Our volume buying for global companies allows us to pass savings along to you.

**Contact us today.** We think you'll be pleasantly surprised.

