



enLOGIC

ADVANTAGE SERIES

PRODUCT GUIDE

THE ENLOGIC ADVANTAGE SERIES OF PDUs

Introducing the industry's most innovative energy metering Rack Power Distribution Units (PDUs) designed to simplify rack management in your data centre.

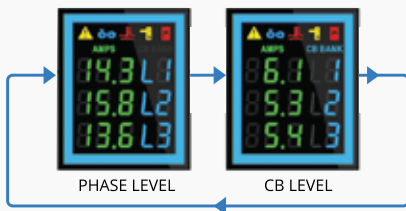
The PDU is a small but vital part of the data centre energy supply chain - the IT gear can't function without it. You'll find one in every IT rack, usually two. But as a small component in a much bigger purchasing decision for both IT and facilities, it's often overlooked.

The Enlogic energy metering PDU is more than a simple power distribution unit and energy meter. Enlogic's intelligent PDUs sit within the rack actively monitoring the data centre environment, continually looking for threats from electrical circuit overloads, and any physical and environmental conditions which might place critical IT computing loads at risk. Enlogic's intelligent PDUs provide comprehensive, accurate energy measurement data needed to efficiently utilize power resources, make informed capacity planning decisions, improve uptime, measure PUE (power usage effectiveness) and drive green data centre initiatives that could save you energy and money. Making the right choice is critical to solving your specific rack management needs - let us guide you through our range of standard and configurable PDUs to help you find the specification that suits your business.



ADVANTAGE NETWORK MANAGEMENT CONTROLLER (NMC)

HIGH VISIBILITY DATA DISPLAY



USB - C
FUTURE PROOF, LOCAL
UPGRADES AND EXPANDED
SENSOR SUPPORT

**DUAL DIGITAL
SENSOR PARTS**

GIGABIT ETHERNET
PRIMARY NETWORK
CONNECTION

TOOLLESS INSTALLATION

QUICK HOT-SWAP
REPLACEMENT AND DISPLAY
DOES NOT AUTO-ROTATE
WITH ORIENTATION CHANGE

CRITICAL ALARM ICONS

- ⚠ PDU ALARM
- 🔗 CASCADE ERROR
- 🌡 ENVIRONMENTAL ALARM
- 🔒 SECURITY ALARM
- 🔴 CIRCUIT BREAKER ALARM

INTERACTIVE DISPLAY



POWER SAVING SLEEP MODE

10/100 ETHERNET

FOR REDUNDANT NETWORKS,
DUAL NETWORK ACCESS, AND
HIGH BANDWIDTH CASCADING

BASIC PDU SERIES

Enlogic's Basic PDU series provides essential power distribution designed with premium components for reliable operation in high temperature data centre environments. Choose from a variety of single and three-phase power input models for every data centre need.

Input Plug	Max Power	Total Outlets	Outlet Configuration	Chassis Size (L x W x D), mm	SKU
1Ph - 16A IEC 60309 316P6	3.7 kVA	12	(12)C13	41 x 443 x 49	EB0311
		22	(12)C13, (2)C19	817 x 52 x 53	EB0322
1Ph - 32A IEC 60309 332P6	7.4 kVA	20	(20)C13	817 x 52 x 53	EB0321
		30	(24)C13, (6)C19	1490 x 52 x 53	EB0328
		42	(36)C13, (6)C19	1490 x 52 x 53	EB0337
1Ph - 63A IEC60309 363P6	11.0 kVA	36	(30)C13, (6)C19	817 x 52 x 53	EB0332
3Ph - 16A IEC 60309 516P6	11.0 kVA	30	(24)C13, (6)C19	1490 x 52 x 53	EB0402
		42	(36)C13, (6)C19	1490 x 52 x 53	EB0403
3Ph - 32A IEC 60309 532P6	22.1 kVA	24	(12)C13, (12)C19	1750 x 52 x 53	EB0808
		24	(18)C13, (6)C19	915x 52 x 112	EB0809
		42	(30)C13, (12)C19	1750 x 55 x 53	EB0811
		48	(36)C13, (12)C19	1820 x 52 x 112	EB0812

METERED IPDU SERIES

Enlogic's Metered iPDUs provide networked, real-time input and circuit breaker level monitoring for early threat warning, capacity & load balancing, and energy use optimization.

Input Plug	Max Power	Total Outlets	Outlet Configuration	Chassis Size (L x W x D), mm	SKU
1Ph-32A IEC 60309 316P6	3.7 kVA	24	(20)C13, (4)C19	1490 x 52 x 53	EN1326
1Ph-32A IEC 60309 332P6	7.4 kVA	24	(20)C13, (4)C19	1490 x 52 x 53	EN1325
		34	(28)C13, (6)C19	1750 x 52 x 53	EN1330
		38	(32)C13, (6)C19	1750 x 52 x 53	EN1335
		42	(36)C13, (6)C19	1750 x 52 x 53	EN1337
3Ph-16A IEC 60309 516P6	11.0 kVA	30	(24)C13, (6)C19	1490 x 52 x 53	EN1402
		42	(36)C13, (6)C19	1750 x 52 x 53	EN1403
3Ph-32A IEC60309 532P6	22.1 kVA	24	(12)C13, (12)C19	1750 x 52 x 53	EN1808
		24	(18)C13, (6)C19	915 x 52 x 112	EN1809
		24	(24)C13	1820 x 52 x 112	EN1813
		42	(30)C13, (12)C19	1750 x 52 x 53	EN1811
		48	(36)C13, (12)C19	1820 x 52 x 112	EN1812

ADVANTAGE SERIES iPDU

Enlogic's Advantage Series of iPDUs come in a wide range of options to meet all of your data centre needs:

Metered, Outlet Switched iPDU (EN2000 range) provide remote outlet on/off switching for power-up sequencing, remote power cycling, and outlet use management combined with all features of the metered iPDU Series.

Outlet Metered iPDU (EN5000 range) Individual outlet power and energy metering combined with all the features of the metered iPDU Series.

Outlet Metered, Outlet Switched iPDU (EN6000 range) Comprehensive management solution includes features of both the EN2000 and EN5000 Series.

EN2000, EN5000, AND EN6000 SERIES

Phase	Input Plug	Max Power	Total Outlets	Outlet Configuration
1Ph - 16A	IEC 60309 316P6	3.7 kVA	16	(12)C13, (4)C19
			24	(20)C13, (4)C19
1Ph - 32A	IEC 60309 332P6	7.4 kVA	24	(20)C13, (4)C19
			32	(24)C13, (8)C19
			44	(38)C13, (6)C19
3Ph - 16A	IEC 60309 516P6	11.0 kVA	24	(18)C13, (6)C19
			36	(30)C13, (6)C19
3Ph - 32A	IEC 60309 532P6	22.1 kVA	24	(12)C13, (12)C19
			36	(24)C13, (12)C19
			48	(36)C13, (12)C19



Modify any PDU to your exact specifications with colours, outlet configurations, or form factor using custom configurations by Enlogic.

Chassis Size (L x W x D), mm	SKU		
	Outlet Switched	Outlet Metered	Outlet Metered + Switched
917 x 52 x 53	EN2317		
1490 x 52 x 53	EN2326		
1750 x 52 x 53	EN2325	EN5325	EN6325
1750 x 52 x 53	EN2329	EN5329	EN6329
1750 x 52 x 53	EN2337	EN5337	EN6337
1750 x 52 x 53	EN2402	EN5402	EN6402
1750 x 52 x 53	EN2403	EN5403	EN6403
1750 x 85 x 53	EN2808	EN5808	EN6808
1750 x 85 x 53	EN2810	EN5810	EN6810
1820 x 52 x 112	EN2812	EN5812	EN6812

ENLOGIC ADVANTAGE FEATURE SET



HIGH ACCURACY METERING

(V, A, VA, W, kWh, pf)
Billing - grade accuracy



TOOLLESS HOT-SWAP NMC

For maximum availability
and future upgrades



ULTRALOW PROFILE DESIGN

For easy equipment access



IP CASCADING

Manage up to 64 PDUs
through a single IP address



DC POWER SHARING

Two-way power sharing for an
always-on network
management and alarms



ADVANCED NETWORKING

For future proofing and redundancy



ENVIRONMENTAL MONITORING AND ACCESS CONTROL

With plug and play support for up to 8 digital sensors



BEST-IN-CLASS WARRANTY

For investment protection



COLOUR CODED OUTLETS BY CIRCUIT BREAKER

Visual phase and load bank identification for reduced human error



USER DEFINED ELECTRONIC COLOUR CODING

For easy power source identification

INLINE ENERGY METER



Enlogic's Inline Energy Meters are used to monitor power and environment conditions for attached IT equipment.

The Advanced Inline Energy Meter boasts billing-grade power and energy metering, and can connect up to 6 external sensors for complete threat detection and warning.

Input Voltage	Input Plug	Output Connector	Chassis Size (L x W x D), mm	Inline Meter
16A, 1ph, 230V	IEC 60309 316P6	IEC 60309 316C6	350 x 55 x 110	EZ1616
32A, 1ph, 230V	IEC 60309 332P6	IEC 60309 332C6	350 x 55 x 110	EZ1632
60A, 1ph, 230V	IEC 60309 363P6	IEC 60309 363C6	445 X 55 X 110	EZ1663
16A, 3ph-Wye, 230V	IEC 60309 516P6	IEC 60309 516C6	350 X 55 X 110	EZ1716
32A, 3ph-Wye, 230V	IEC 60309 532P6	IEC 60309 532C6	350 X 55 X 110	EZ1732
63A, 3ph-Wye, 230V	IEC 60309 563P6	IEC 60309 563C6	445 X 55 X 110	EZ1763

SIMPLIFY SECURITY WITH ENLOGIC'S eHANDLE

Enlogic's eHandle simplifies rack security control: the eHandle connects to the iPDU via ethernet, and uses the controller for network communications and power. The eHandle makes it easy to wire, power, and manage rack security with a single network connection. Enhance the value of your iPDU by using its power to do more things.

With the Enlogic eHandle, customize your data centre rack with the following levels of security:

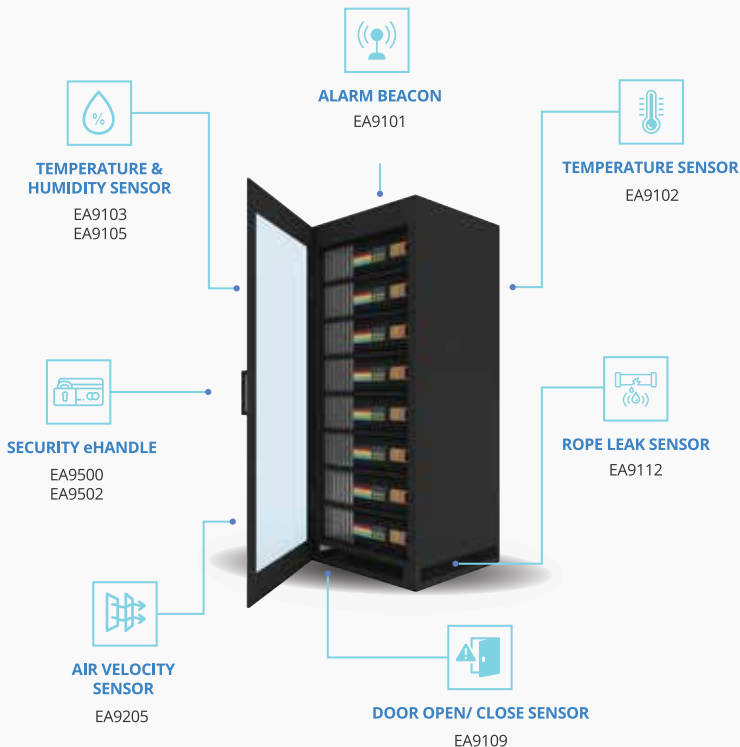
- **Single Factor Authentication:** RFID card reader
- **Dual Factor Authentication:** RFID card reader + Keypad

The eHandle integrates all of the environmental and security features needed in 1 to control your data centre: access control, alarm beacon, temperature and humidity support.



ENVIRONMENTAL & SECURITY MANAGEMENT

Enlogic PDUs can directly connect and manage up to 8 plug-and-play environmental and Security management devices, to ensure your data centre performs at optimal conditions.



DUAL LOCKING POWER CORDS (6 CORDS PER PACK)

PDU Side Plug	Server/IT Equipment Connector	Rating	Cable Length (m)
C14, Locking Style	C13, Universal Locking Style	10A, 250V	0.6
			1.2
			1.8
C20, Locking Style	C19, Universal Locking Style	16A, 250V	0.6
			1.2
			1.8
C20, Locking Style	C13, Universal Locking Style	10A, 250V	0.6
			1.2
			1.8

DUAL LOCKING POWER CORDS

Comes standard in black, blue and gray



Cords can be customized with various colour and length options available

PRODUCT FEATURES

CIRCUIT BREAKER LOAD MONITORING AND ALERTS

- Monitor total load for each circuit breaker
- Measure circuit breaker loads across redundant feeds to avoid accidental downtime
- Enables smart load balancing for power efficiency and maximized capacity utilization

PDU ENERGY METERING

- PDU level power & energy metering (W, kWh)
- Input Phase level power measurements (V, A, VA, kWh, pf)
- High-Accuracy, billing-grade metering tested to ISO/IEC 62053-21 ($\pm 1\%$) standard
- Data logging for capacity planning & troubleshooting
- User customizable alarm thresholds & notifications

OUTLET LEVEL SWITCHING

- Remote On/Off power control for every individual outlet
- User-defined power-on time delay to sequence IT equipment
- Automatic power-on sequencing to avoid inrush current overload
- Disable unused outlets to avoid accidental overload and unauthorized use
- Outlet level user security with assignable roles and user access

OUTLET LEVEL ENERGY METERING

- Power and energy metering at each individual outlet to measure loads of attached equipment
- Outlet level watt-hour energy metering (kWh)
- Outlet level power measurements (V, A, VA, W, pf)
- High-Accuracy, billing-grade metering tested to ISO/IEC 62053-21 ($\pm 1\%$) standard

PDU DESIGN FEATURES

























- Low profile, space saving design
- Ultra low profile circuit breakers on most models
- Flexible tool-less mounting system
- Colour-coded outlets and circuit-breakers
- Locking IEC outlets and 2-way locking power cord compatible

NETWORK MANAGEMENT CONTROLLER

- High-Performance ARM A5 processor with advanced network management
- Dual network ports: Gigabit and 10/100 Ethernet
- Redundant ethernet connectivity for each PDU
- Comprehensive connectivity options include SNMP, HTTPS, Telnet, SSH, JSON, VSPD, Redfish API, and others
- Strong encryption, passwords, and advanced authorization options including LDAP/S, and Active Directory
- IP Cascading allows management of up to 64 PDUs and 512 sensors through a single Ethernet connection
- User changeable color display options to update the NMC to one of six custom colours.

LOCAL INFORMATION DISPLAYS

- Dual displays permit both easy-to-view critical data and local user interaction
- Industry's largest display with high visibility phase, circuit breaker, and alarm icons
- User interface allows users to configure and access data locally

PDU Metered EN1000	PDU Metered, Outlet Switched EN2000	Outlet Metered EN5000	Outlet Metered, Outlet Switched EN6000
			
			
			
			
			
			
			

CIS Global has delivered superior product development, manufacturing, and logistics management since 1955 to small and large customers across the globe. We specialize in development of data centre products including mechanical motion and power management solutions. CIS is the world leader in precision server rails found in virtually every data centre worldwide.

As a leading provider of data centre power products, CIS has more than 20 years' experience manufacturing more than 2 million best-in-class PDUs. CIS acquired Enlogic Systems in 2015, and remains dedicated to providing the industry's most innovative power management solutions built with the highest manufacturing quality.

