Innovative Power Engineering

High Quality Power Distribution for the Data Centre

structure source

Making the complex, **simple**

product range

Rack and Server Power Distribution Units

Structure Source Power Distribution Units are designed to provide reliable, power distribution combined with highly accurate monitoring and control for IT equipment in the data centre.

Optimise and utilise all available power and control the operational expenditure involved in running a data centre.

Rack and Server Power Distribution Units

Structure Source PDU's offer real time remote power monitoring of current (amps), voltage, power (kVA, kW) and energy consumption (kWh) with a high grade accuracy that enables you to track, trend, analyse and utilise all your available power.

You can then choose your level of control, remotely switch outlets for full control and remote reboot, or combine outlet monitoring with switching to fully manage the rack power.

Power distribution and monitoring through Structure Source PDUs help to ensure you have the power you need, where you need it. Choosing from SMART PIM (Per inlet monitoring PDU's), SMART POM (Per outlet monitoring PDU's), SMART POMS (Per outlet monitored and switched PDU's) you know if you are reaching your capacity, or can plan for growth, knowing confidently if you are able to add more servers or capacity and, if so, where.

Structure Source Product Range	Circuit Breakers	Local Inlet Power Monitoring	Remote Inlet Power Monitoring	Outlet Power Monitoring	Outlet Switching	Environmental Monitoring	Set up alarms, access security
Basic PDU	✔						
Metered PDU	✔	✔					
Smart PIM (Per inlet monitored PDU)	✔	✔	✔			✔	✔
Smart POM (Per outlet monitored PDU)	✔	✔	✔	✔		✔	✔
Smart POMS (Per outlet monitored & switched PDU)	✔	✔	✔	✔	✔	✔	✔

Structure Source Power management solutions enable data center and facilities managers to:

- Efficiently manage power resources
- Improve uptime and staff productivity
- Optimise the capacity planning decisions
- Energy saving

the Structure Source technology

IP ACCESS AND TECHNOLOGY
Support HTTP/HTML, SNMP V1, 2, 3, IPv4&6, DHCP, Modbus Over IP, Telnet.

VERSATILE CONNECTION PORTS
10-100 Mbps Ethernet (RJ-45) Environmental RJ45 port mini USB for firmware update and debug Daisy chain RJ45 IN/OUT.

LIGHT ALUMINIUM CHASIS
Light and excellent heat dissipation Large variety of profile colours available. Versatile mounting options to fit on the major Server Rack manufacturers.

SMART LCD DISPLAY
Shows Input power parameters Scroll individual outlet (V,A,PF,W,kWh) Screen turn orientation according PDU position.

Input 1
230V
15,6A
3,48kW
CosΦ 0,97
SCROLL | SELECT

HIGH QUALITY ELECTRICAL COMPONENTS
Wide range of power sockets including Schuko CEE 7/4 UTE CEE7/5, UK BS1363, AS/NZS3112, SEVT13, SEVT23, C13 lock, C19 lock, UL and VDE approved sockets. Busbar copper connections, prevents hot points across the whole electrical line.

UL489 BRANCH CIRCUITS
Meet latest UL branch protection standards Independent VDE approved for European low profile Magnetic hydraulic breaker.

DAISY CHAIN
The Daisy Chain to monitor and manage up to 4 PDU's with a single IP address.

ENVIRONMENTAL SENSORS
All in one temperature and humidity sensor supports 2 digital inputs for door open sensor, water leak, smoke sensor, air flow and vibration sensor.

The Structure Source Basic PDU's provides a simple solution where reliable power distribution for equipment racks and other data center applications is needed. This PDU's provide both power distribution and branch circuit protection.

Structure Source has a full range of choices, from 6A to 63A rating for a single phase and three phase. For outlet connections, the Basic PDU's has a wide range of socket options from IEC sockets (C13 and C19) to the different national outlet standard types such as (Schuko) CEE7/4, (UTE) CEE7/5, UK BS1363, AS/NZS3112 and NEMA.

RACK MOUNTABLE
Includes horizontal, vertical, and toolless-mount options.

BRANCH CIRCUIT PROTECTION
All PDU's meet the required branch circuit when power is up to 16A, other protections like individually fused outlets are available upon demand.

BASIC PDU'S

Technology	Part Number	Mounting	Rating (A)	Outlet Type	Output Type	Input Type
BASIC	EN-4612-C14-H	19"	220V	10A	12C13	C14 plug
BASIC	EN-4612-C20-H	19"	220V	16A	12C13	C20 plug
BASIC	EN-4612-16A-H	19"	220V	16A	12C13	IEC60309 16A plug
BASIC	EN-O-4612-32A-H	19"	220V	32A	12C13	IEC60309 32A plug
BASIC	EN-4616-16A-H	OU	220V	16A	16C13	IEC60309 16A plug
BASIC	IEC-4606-16A-H	19"	220V	16A	6C19	IEC60309 16A plug
BASIC	ENIEC-462004-16A-V	OU	220V	16A	20C13+4C19	IEC60309 16A plug
BASIC	ENIEC-462004-32A-V	OU	220V	32A	20C13+4C19	IEC60309 32A plug
BASIC	ENIEC-463606-16A-V	OU	220V	16A	36C13+6C19	IEC60309 16A plug
BASIC	ENIEC-O-463606-32A-V	OU	220V	32A	36C13+6C19	IEC60309 32A plug
BASIC	ENIEC-463606-16A-3P-V	OU	380V	16A	36C13+6C19	IEC60309 16A plug
BASIC	ENIEC-463606-32A-3P-V	OU	380V	32A	36C13+6C19	IEC60309 32A plug

The Structure Source Metered is a PDU with local input current monitoring, which allows network engineers to utilise the PDU's True RMS Power Monitor to precisely measure the current (in amps) that network devices are drawing on the power circuit. As new servers and devices are added to the power drop, the impact on the cumulative current draw can be observed immediately. This allows the engineer to safely load each circuit to its maximum allowable load capacity without the danger of overloading the power circuit.

RACK MOUNTABLE
Includes horizontal, vertical, and toolless-mount options.

BRANCH CIRCUIT PROTECTION
All PDU's meet the required branch circuit when power is up to 16A, other protections like individually fused outlets are available upon demand.

LOCAL CURRENT DISPLAY
4 LED current display true RMS meter to prevent overload on critical environments where high load is required and the current draw is close to the maximum amperage draw of the strip.

METERED PDU'S

Technology	Part Number	Mounting	Rating (A)	Outlet Type: Qty	Output Type	Input Type
METERED IEC	EN-M-4612-16A-H	19"	220V	16A	12C13	IEC60309 16A plug
METERED IEC	EN-O-M-4612-32A-H	19"	220V	32A	12C13	IEC60309 32A plug
METERED IEC	EN-M-4616-16A-V	OU	220V	16A	16C13	IEC60309 16A plug
METERED IEC	EN-O-M-4616-32A-V	OU	220V	32A	16C13	IEC60309 32A plug
METERED IEC	ENIEC-M-462004-16A-V	OU	220V	16A	20C13+4C19	IEC60309 16A plug
METERED IEC	ENIEC-0-M-462004-32A-V	OU	220V	32A	20C13+4C19	IEC60309 32A plug
METERED IEC	ENIEC-M-463606-16A-V	OU	220V	16A	36C13+6C19	IEC60309 16A plug
METERED IEC	ENIEC-O-M-463606-32A-V	OU	220V	32A	36C13+6C19	IEC60309 32A plug
METERED IEC	ENIEC-M-463606-16A-3P-V	OU	380V	16A	36C13+6C19	IEC60309 16A plug 3phase
METERED IEC	ENIEC-O-M-463606-32A-3P-V	OU	380V	32A	36C13+6C19	IEC60309 32A plug 3phase
METERED SCHUKO	GN-M-4620-16A-V	OU	220V	16A	20 Schuko	IEC60309 16A plug
METERED SCHUKO	GN-0-M-4620-32A-V	OU	220V	32A	20 Schuko	IEC60309 32A plug
METERED UTE	FN-M-4620-16A-V	OU	220V	16A	20 UTE	IEC60309 16A plug
METERED UTE	FN-O-M-4620-32A-V	OU	220V	32A	20 UTE	IEC60309 32A plug
METERED UK	BN-M-4620-16A-V	OU	220V	16A	20 UK	IEC60309 16A plug
METERED UK	BN-M-4620-32A-V	OU	220V	32A	20 UK	IEC60309 32A plug
METERED AS/NZS3112	AS-M-4620-16A-V	OU	220V	16A	20 AS/NZS3112	IEC60309 16A plug
METERED AS/NZS3112	AS-O-M-4620-32A-V	OU	220V	32A	20 AS/NZS3112	IEC60309 32A plug

SMART PIM
Smart Per Inlet Monitored

The Smart PIM PDU range provides highly reliable power distribution with the latest intelligent power monitoring. It offers both a clear local LCD display and IP monitoring of the total overall power and cabinet environmental conditions. Its intuitive interface allows you to view Amps, Volts, Watts, Power Factor, kWh, temperature and humidity levels via any web browser, or receive alarms and alerts via SNMP or an email when conditions exceed their defined thresholds.

The Smart PIM PDU family has the capability to define master and slave units, allowing daisy chaining of multiple units. A single IP address can then be used across different power circuits, reducing the need for multiple IP addresses.

RACK MOUNTABLE
Includes horizontal, vertical, and toolless-mount options.

BRANCH CIRCUIT PROTECTION
All PDU's meet the required branch circuit when power is up to 16A, other protections like individually fused outlets are available upon demand.

DAISY CHAIN
The Daisy Chain to monitor and manage up to 4 PDU's with a single IP address.

SMART LCD DISPLAY
Shows Input power parameters Scroll individual outlet (V,A, PF,W,kWh) Screen turn orientation according to PDU position.

Input 1
230V
15,6A
3,48kW
CosΦ 0,97
SCROLL SELECT

IP ACCESS TECHNOLOGY
Support HTTP/HTML, SNMP V1, 2, 3, IP V4 &6, DHCP, Modbus Over IP, Telnet. mount options.

ENVIRONMENTAL SENSORS
All in one temperature and humidity sensor supports 2 digital inputs for door open sensor, water leak, smoke sensor, air flow and vibration sensor.

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Technology	Part Number	Mounting	Rating (A)	Outlet Type: Qty	Output Type	Input Type
PER INLET MONITORED IEC	ENIEC-PIM-601204-16A-H	19"	220V	16A	12C13+4C19	IEC60309 16A plug
PER INLET MONITORED IEC	ENIEC-O-PIM-601204-32A-H	19"	220V	32A	12C13+4C19	IEC60309 32A plug
PER INLET MONITORED IEC	ENIEC-PIM-602004-16A-V	OU	220V	16A	20C13+4C19	IEC60309 16A plug
PER INLET MONITORED IEC	ENIEC-O-PIM-462004-32A-V	OU	220V	32A	20C13+4C19	IEC60309 32A plug
PER INLET MONITORED IEC	ENIEC-PIM-463606-16A-V	OU	220V	16A	36C13+6C19	IEC60309 16A plug
PER INLET MONITORED IEC	ENIEC-O-PIM-463606-32A-V	OU	220V	32A	36C13+6C19	IEC60309 32A plug
PER INLET MONITORED IEC	ENIEC-PIM-463606-16A-3P-V	OU	380V	16A	36C13+6C19	IEC60309 16A plug
PER INLET MONITORED IEC	ENIEC-O-PIM-463606-32A-3P-V	OU	380V	32A	36C13+6C19	IEC60309 32A plug
PER INLET MONITORED SCHUKO	GN-O-PIM-6012-32A-H	19"	220V	32A	8 o 2	IEC60309 32A plug
PER INLET MONITORED SCHUKO	GN-PIM-4620-16A-V	OU	220V	16A	20 Schuko	IEC60309 16A plug
PER INLET MONITORED SCHUKO	GN-O-PIM-4620-32A-V	OU	220V	32A	20 Schuko	IEC60309 32A plug
PER INLET MONITORED UTE	FN-O-PIM-6012-32A-H	19"	220V	32A	8 o 2	IEC60309 32A plug
PER INLET MONITORED UTE	FN-PIM-4620-16A-V	OU	220V	16A	20 UTE	IEC60309 16A plug
PER INLET MONITORED UTE	FN-O-PIM-4620-32A-V	OU	220V	32A	20 UTE	IEC60309 32A plug
PER INLET MONITORED UK	BN-PIM-6012-32A-H	19"	220V	32A	8 o 2	IEC60309 32A plug
PER INLET MONITORED UK	BN-PIM-4620-16A-V	OU	220V	16A	20 UK	IEC60309 16A plug
PER INLET MONITORED UK	BN-PIM-4620-32A-V	OU	220V	32A	20 UK	IEC60309 32A plug
PER INLET MONITORED AS/NZS3111	AS-O-PIM-6012-32A-V	19"	220V	32A	8 o 2	IEC60309 32A plug
PER INLET MONITORED AS/NZS3112	AS-PIM-4620-16A-V	OU	220V	16A	20 AS/NZS3112	IEC60309 16A plug
PER INLET MONITORED AS/NZS3112	AS-O-PIM-4620-32A-V	OU	220V	32A	20 AS/NZS3112	IEC60309 32A plug

Technology	Part Number	Mounting	Rating (A)	Outlet Type: Qty	Output Type	Input Type
PER OUTLET MONITORED IEC	ENIEC-POM-601204-16A-H	19"	220V	16A	12C13+4C19	IEC60309 16A plug
PER OUTLET MONITORED IEC	ENIEC-CB-POM-601204-32A-H	19"	220V	32A	12C13+4C19	IEC60309 32A plug
PER OUTLET MONITORED IEC	IEC-POM-601204-16A-H	19"	220V	16A	12C19	IEC60309 16A plug
PER OUTLET MONITORED IEC	IEC-CB-POM-6012-32A-H	19"	220V	32A	12C19	IEC60309 32A plug
PER OUTLET MONITORED IEC	ENIEC-POM-452004-16A-V	OU	220V	16A	20C13+4C19	IEC60309 16A plug
PER OUTLET MONITORED IEC	ENIEC-CB-POM-452004-32A-V	OU	220V	32A	20C13+4C19	IEC60309 32A plug
PER OUTLET MONITORED IEC	ENIEC-POM-453606-16A-V	OU	220V	16A	36C13+6C19	IEC60309 16A plug
PER OUTLET MONITORED IEC	ENIEC-CB-POM-453606-32A-V	OU	220V	32A	36C13+6C19	IEC60309 32A plug
PER OUTLET MONITORED IEC	ENIEC-POM-453606-16A-3P-V	OU	380V	16A	36C13+6C19	IEC60309 16A plug
PER OUTLET MONITORED IEC	ENIEC-CB-POM-453606-32A-3P-V	OU	380V	32A	36C13+6C19	IEC60309 32A plug
PER OUTLET MONITORED SCHUKO	GN-CB-POM-6012-32A-H	19"	220V	32A	12	IEC60309 32A plug
PER OUTLET MONITORED SCHUKO	GN-POM-5020-16A-V	OU	220V	16A	20 Schuko	IEC60309 16A plug
PER OUTLET MONITORED SCHUKO	GN-CB-POM-5020-32A-V	OU	220V	32A	20 Schuko	IEC60309 32A plug
PER OUTLET MONITORED UTE	FN-CB-POM-6012-32A-H	19"	220V	32A	12	IEC60309 32A plug
PER OUTLET MONITORED UTE	FN-POM-5020-16A-V	OU	220V	16A	20 UTE	IEC60309 16A plug
PER OUTLET MONITORED UTE	FN-CB-POM-5020-32A-V	OU	220V	32A	20 UTE	IEC60309 32A plug
PER OUTLET MONITORED UK	BN-CB-POM-6012-32A-V	19"	220V	32A	12	IEC60309 32A plug
PER OUTLET MONITORED UK	BN-POM-5020-16A-V	OU	220V	16A	20 UK	IEC60309 16A plug
PER OUTLET MONITORED UK	BN-CB-POM-5020-32A-V	OU	220V	32A	20 UK	IEC60309 32A plug
PER OUTLET MONITORED AS/NZS 3112	AS-CB-POM-6012-32A-H	19"	220V	32A	12	IEC60309 32A plug
PER OUTLET MONITORED AS/NZS 3112	AS-POM-5020-16A-V	OU	220V	16A	20 AS/NZS3112	IEC60309 16A plug
PER OUTLET MONITORED AS/NZS 3112	AS-CB-POM-5020-32A-V	OU	220V	32A	20 AS/NZS3112	IEC60309 32A plug

SMART POM
Smart Per Outlet Monitored

Smart POM PDU's

The Smart POM PDU range provides highly reliable power distribution with the latest intelligent power monitoring. It offers both a clear local LCD display and IP monitoring of the total overall power, power at each individual outlet and cabinet environmental conditions. By monitoring each single outlet and the overall power it gives a full view of power use in your cabinet. Its intuitive interface allows you to view Amps, Volts, Watts, Power Factor, kWh, temperature and humidity levels via any web browser, or receive alarms and alerts via SNMP or email when conditions exceed their defined thresholds.

The Smart POM PDU family has the capability to define a master and slave units, allowing daisy chaining of multiple units. A single IP address can be used across different power circuits, reducing any need for multiple IP addresses.

RACK MOUNTABLE
Includes horizontal, vertical, and toolless-mount options.

BRANCH CIRCUIT PROTECTION
All PDU's meet the required branch circuit when power is up to 16A, other protections like individually fused outlets are available upon demand.

DAISY CHAIN
The Daisy Chain to monitor and manage up to 4 PDU's with a single IP address.

SMART LCD DISPLAY
Shows Input power parameters Scroll individual outlet (V,A, PF,W,kWh) Screen turn orientation according to PDU position.

IP ACCESS TECHNOLOGY
Support HTTP/HTML, SNMP V1, 2, 3, IP V4 &6, DHCP, Modbus Over IP, Telnet. mount options.

ENVIRONMENTAL SENSORS
All in one temperature and humidity sensor supports 2 digital inputs for door open sensor, water leak, smoke sensor, air flow and vibration sensor.

SMART POMS
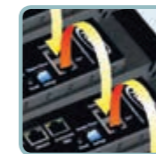Smart Per Outlet Monitored & Switched

Smart POMS PDU's

The Smart POMS PDU's range provide highly reliable power distribution with the latest intelligent power monitoring. It offers both a clear local LCD display and IP monitoring of the power cabinet environmental conditions. It offers our maximum power monitoring and functionality, giving both overall power conditions, power monitoring per outlet, cabinet environmental conditions all combined with the ability to switch on or off each individual outlet remotely. Using the intuitive interface you can view Amps, Volts, Watts, Power Factor, kWh, temperature and humidity levels via any web browser, or receive SNMP based alarms and email alerts when conditions exceed the defined thresholds.

Controlling each outlet switching allows the user to reboot each outlet immediately or in a specific delayed sequence. The Smart POMS PDU family has the capability to define a master and slave units, allowing daisy chaining of multiple units. A single IP address can then be used across different power circuits, reducing any need for multiple IP addresses.

DAISY CHAIN
The Daisy Chain to monitor and manage up to 4 PDU's with a single IP address.

SMART LCD DISPLAY
Shows Input power parameters Scroll individual outlet (V,A, PF,W,kWh) Screen turn orientation according to PDU position.

IP ACCESS TECHNOLOGY
Support HTTP/HTML, SNMP V1, 2, 3, IP V4 &6, DHCP, Modbus Over IP, Telnet. mount options.

ENVIRONMENTAL SENSORS
All in one temperature and humidity sensor supports 2 digital inputs for door open sensor, water leak, smoke sensor, air flow and vibration sensor.

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SMART POMS PDU'S

Technology	Part Number	Mounting	Rating (A)	Outlet Type: Qty	Output Type	Input Type
PER OUTLET MONITORED & SWITCHED IEC	ENIEC-POMS-601204-16A-H	19"	220V	16A	12C13+4C19	IEC60309 16A plug
PER OUTLET MONITORED & SWITCHED IEC	ENIEC-CB-POMS-601204-32A-H	19"	220V	32A	12C13+4C19	IEC60309 32A plug
PER OUTLET MONITORED & SWITCHED IEC	ENIEC-POMS-6012-16A-H	19"	220V	16A	12C19	IEC60309 16A plug
PER OUTLET MONITORED & SWITCHED IEC	ENIEC-CB-POMS-6012-32A-H	19"	220V	32A	12C19	IEC60309 32A plug
PER OUTLET MONITORED & SWITCHED IEC	ENIEC-POMS-452004-16A-V	OU	220V	16A	20C13+4C19	IEC60309 16A plug
PER OUTLET MONITORED & SWITCHED IEC	ENIEC-CB-POMS-452004-32A-V	OU	220V	32A	20C13+4C19	IEC60309 32A plug
PER OUTLET MONITORED & SWITCHED IEC	ENIEC-POMS-503606-16A-V	OU	220V	16A	36C13+6C19	IEC60309 16A plug
PER OUTLET MONITORED & SWITCHED IEC	ENIEC-CB-POMS-503606-32A-V	OU	220V	32A	36C13+6C19	IEC60309 32A plug
PER OUTLET MONITORED & SWITCHED IEC	ENIEC-POMS-503606-16A-3P-V	OU	380V	16A	36C13+6C19	IEC60309 16A plug
PER OUTLET MONITORED & SWITCHED IEC	ENIEC-CB-POMS-503606-32A-3P-V	OU	380V	32A	36C13+6C19	IEC60309 32A plug
PER OUTLET MONITORED & SWITCHED SCHUKO	GN-CB-POMS-6012-32A-H	19"	220V	32A	12	IEC60309 32A plug
PER OUTLET MONITORED & SWITCHED SCHUKO	GN-POMS-5020-16A-V	OU	220V	16A	20 Schuko	IEC60309 16A plug
PER OUTLET MONITORED & SWITCHED SCHUKO	GN-CB-POMS-5020-32A-V	OU	220V	32A	20 Schuko	IEC60309 32A plug
PER OUTLET MONITORED & SWITCHED UTE	FN-CB-POMS-6012-32A-H	19"	220V	32A	12	IEC60309 32A plug
PER OUTLET MONITORED & SWITCHED UTE	FN-POMS-5020-16A-H	OU	220V	16A	20 UTE	IEC60309 16A plug
PER OUTLET MONITORED & SWITCHED UTE	FN-CB-POMS-5020-32A-V	OU	220V	32A	20 UTE	IEC60309 32A plug
PER OUTLET MONITORED & SWITCHED UK	BN-CB-POMS-6012-32A-H	19"	220V	32A	12	IEC60309 32A plug
PER OUTLET MONITORED & SWITCHED UK	BN-POMS-5020-16A-V	OU	220V	16A	20 UK	IEC60309 16A plug
PER OUTLET MONITORED & SWITCHED UK	BN-CB-POMS-5020-32A-V	OU	220V	32A	20 UK	IEC60309 32A plug
PER OUTLET MONITORED & SWITCHED AS/NZS 3113	AS-CB-POMS-6012-32A-H	19"	220V	32A	12	IEC60309 32A plug
PER OUTLET MONITORED & SWITCHED AS/NZS 3112	AS-POMS-5020-16A-V	OU	220V	32A	20 AS/NZS 3112	IEC60309 16A plug
PER OUTLET MONITORED & SWITCHED AS/NZS 3112	AS-CB-POMS-5020-32A-V	OU	220V	32A	20 AS/NZS 3112	IEC60309 32A plug

Do your own custom PDU

Structure Source PDU's can be custom made and built in days, this allows you to specify your power density and monitoring requirements, together with inputs and outputs.

The sockets available are Schuko, UTE, UK, IEC (C13 and C19) locking version also available to customise are Basic, Metered, PIM (per inlet monitored), POM (per outlet monitored), POMS (per outlet monitored and switched).

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