

Data Centre Power and Cooling

With power costs continuing to rise, the ability to maximise a data centre's energy efficiency has rapidly become one of the most critical considerations for network infrastructure professionals. To meet this growing challenge, Siemon has developed a solution set that addresses energy efficiency from two key angles — cooling and power distribution.

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Aisle Containment Solutions

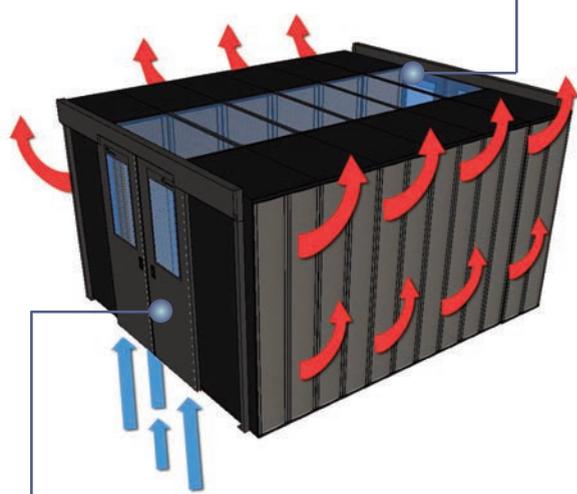
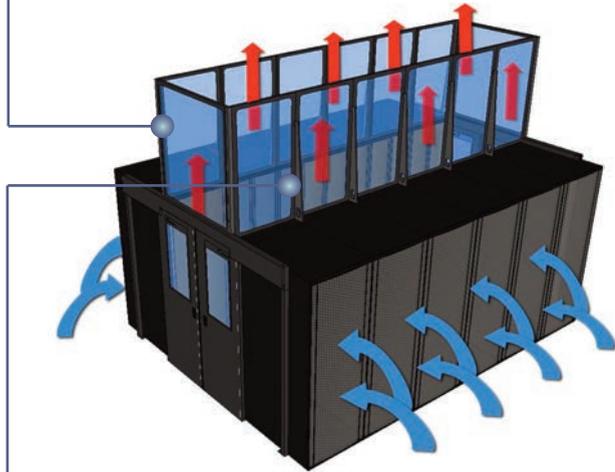
Siemon Aisle Containment Solutions are available in cold aisle containment (CAC) and hot aisle containment (HAC) configurations with roof or vertical panels that can be easily attached to Siemon VersaPOD®, V800™ and V600™ cabinets in a pod system to improve efficiency and expand the capacity of a data centre. By either containing cold air supply to provide targeted cooling to active equipment and isolating it from the rest of the room (CAC), or by guiding hot air exhaust for efficient return to cooling systems (HAC), Siemon Aisle Containment Solutions prevent the mixing of hot and cold air in the data centre. This allows higher temperature return air to improve the efficiency of existing cooling systems and reduce energy costs while preventing overprovisioning of air conditioning units. These passive containment solutions also cost effectively increase capacity by allowing greater heat densities without costly supplemental cooling. Custom size panels, door kits and several accessories are available to meet a wide variety of spaces and environments, including wall mount brackets for installation of a single cabinet row against a wall and riser brackets for greater headroom when using 42U cabinets.

HAC Standing Top and End Panels — Sized to match width of cabinet and height to suspended ceiling, these panels guide hot air to overhead air return.

CAC Roof Panels — These panels form a horizontal roof across the aisle to contain cold air for targeted cooling to active equipment.

Hot Aisle Containment

Cold Aisle Containment



Angled Support Brackets — Provide lateral support to vertically mounted HAC standing top panels

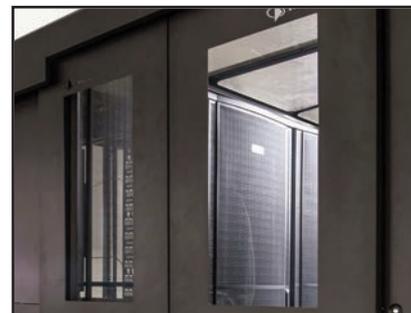
Self-closing or Manual Doors — Used to close off the end of the aisle with an integral frame design for smooth operation



Made to Order — Custom size CAC roof and HAC standing top and end panels with polycarbonate inserts



Easy to Retrofit — Easily attaches to cabinets to leverage existing perimeter cooling and hot aisle/cold aisle arrangement

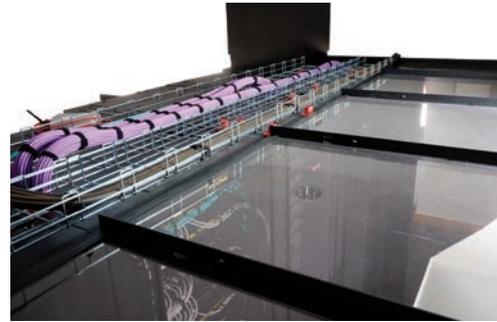


Thermal Insulation — Robust seals and self-closing or manual doors ensure optimal isolation between hot and cold air

Ordering Information:

PERFORMANCE SPECIFICATIONS

Material – Windows	Polycarbonate 4mm (0.157 in.)
Material – Metal Components	CRS
Finish	Textured powder coat
Colour	Black (RAL 9011)
Light Transmission	87%



CAC Roof Panels

1200mm Long Horizontal CAC Roof Panels with Window

Part #	Description
VC-RP(X)-VPN-A12B.....	VersaPOD®
VC-RP(X)-V8N-A12B.....	V800™
VC-RP(X)-V6N-A12B.....	V600™
VC-RP(X)-VPS-A12B.....	SidePOD™
VC-RP(X)-(XXX)-A12B.....	Custom



Use (X) to specify UL, A = Non-UL, B = UL
Use (XXX) to specify width in cm

Filler Panels

These solid panels fill spaces where cabinets are not present, such as where columns or other obstructions exist.

Part #	Description
VC-FP-VPN-BB.....	VersaPOD, 42U
VC-FP-VPN-AB.....	VersaPOD, 45U
VC-FP-V8N-BB.....	V800, 42U
VC-FP-V8N-AB.....	V800, 45U
VC-FP-V8N-CB.....	V800, 48U
VC-FP-V6N-BB.....	V600, 42U
VC-FP-V6N-AB.....	V600, 45U
VC-FP-V6N-CB.....	V600, 48U
VC-FP-VPS-BB.....	SidePOD, 42U
VC-FP-VPS-AB.....	SidePOD, 45U
VC-FP-(XXX)-(YYY)B.....	Custom



Use (XXX) to specify width in cm
Use (YYY) to specify height in cm

HAC Standing Top and End Panels

Vertical Standing Top Panels

Part #	Description
VC-ST(X)-VPN-(YYY)B.....	VersaPOD
VC-ST(X)-V8N-(YYY)B.....	V800
VC-ST(X)-V6N-(YYY)B.....	V600
VC-ST(X)-(XXX)-(YYY)B.....	Custom

Use (X) to specify UL, A = Non-UL, B = UL
Use (XXX) to specify width in cm
Use (YYY) to specify height in cm

Vertical Standing End Panels

Part #	Description
VC-SE(X)-(XXX)-(YYY)B....	Custom

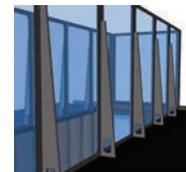
Use (X) to specify UL, A = Non-UL, B = UL
Use (XXX) to specify width in cm
Use (YYY) to specify height in cm

Angled Support Brackets

For supporting vertically mounted HAC top panels

Part #	Description
VC-AS-(XXX)-(YYY)B	Angled support bracket

Use (XXX) to specify width in cm
Use (YYY) to specify height in cm



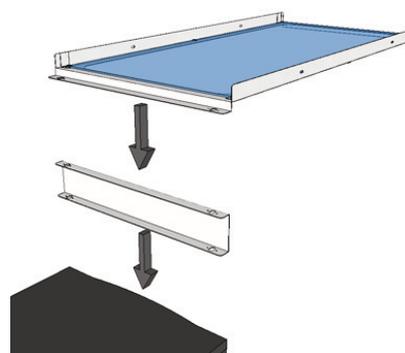
Ordering Information:

Door Kits & Accessories

45U Doors with Window(s), No Lock

Part #	Description
VC-DR(X)-SSL-AB.....	45U Single self closing left
VC-DR(X)-SSN-AB.....	45U Single self closing right
VC-DR(X)-SML-AB.....	45U Single manual closing left
VC-DR(X)-SMR-AB.....	45U Single manual closing right
VC-DR(X)-DSN-AB.....	45U Double self closing
VC-DR(X)-DMN-AB.....	45U Double manual closing

Use (X) to specify UL, A = Non-UL, B = UL



Wall Mounting Brackets

Brackets to mount CAC roof panels to the wall when deploying containment for a single cabinet row

48U Adjustment Brackets to raise doors when using 48U cabinets

Part #	Description
VC-DR-DAB-CB	48U Double door adjustment bracket
VC-DR-SAB-CB	48U Single door adjustment bracket

Part #	Description
VC-WM-VPN-AB.....	VersaPOD®
VC-WM-V8N-AB.....	V800
VC-WM-V6N-AB.....	V600
VC-WM-VPS-AB.....	SidePOD™
VC-WM-(XXX)-AB.....	Custom

Use (XXX) to specify width in cm

End Panels

1200mm wide end panel with window to fill aisle space opposite the door

Part #	Description
VC-EP(X)-B12B.....	End panel, 42U
VC-EP(X)-A12B.....	End panel, 45U
VC-EP(X)-C12B.....	End panel, 48U

Use (X) to specify UL, A = Non-UL, B = UL



Riser Brackets

These brackets are installed on top of cabinets in order to raise roof panels and increase clearance in the cold aisle. Riser brackets can aid in the installation of fire suppression systems within the contained space. They are also useful to establish a uniform level when differing heights of cabinets are used in an aisle.

Part #	Description
VC-RB-VPN-AB.....	VersaPOD,3U
VC-RB-VPN-DB.....	VersaPOD,6U
VC-RB-V8N-AB.....	V800,3U
VC-RB-V8N-DB.....	V800,6U
VC-RB-V6N-AB.....	V600,3U
VC-RB-V6N-DB.....	V600,6U
VC-RB-VPS-AB.....	SidePOD,3U
VC-RB-VPS-DB.....	SidePOD,6U
VC-RB-(XXX)-(YYY)-B.....	Custom

Use (XXX) to specify width in cm

Use (YYY) to specify height in cm

PowerMax™ Power Distribution Units

Siemon's PowerMax line of PDUs range from basic and metered for simple, reliable and cost-effective power distribution, to a full line of intelligent PDUs that deliver real-time power information with varying degrees of intelligent functionality for valuable troubleshooting, control and monitoring of power usage, capacity and environmental conditions. Available in both single phase and either Delta or Wye three phase power, PowerMax PDUs feature a variety of input currents and voltages with either NEMA or IEC style plugs. Multiple NEMA and IEC output options distribute reliable 120V, 208V or 230V to a wide range of rack-mounted IT equipment, ranging from 1.8kW to 22kW.

All PowerMax PDUs come in both horizontal and vertical styles. Horizontal PDUs mount easily in any standard EIA 19-inch rack, while vertical PDUs are ideal for mounting within a cabinet's Zero-U space, such as the Zero-U space offered with Siemon's VersaPOD® and V800™ cabinets.

Mounting

- Vertical PDUs mount via tool-less button attachments
- Horizontal PDUs mount to standard EIA 19 in. configurations

Features

- NEMA and IEC plug inputs
- Single and 3-phase voltages
- Horizontal and Zero-U vertical styles
- 3m (10 ft.) cords with other lengths available
- Soldered connections for high reliability

PDU Families

- Basic
- Metered
- Monitored
- Smart
- Switched
- Managed



Function	Basic	Metered	Monitored	Smart	Switched	Managed
Built-In Display for Local Use		✓	✓	✓	✓	✓
Device-Level Monitoring		✓	✓	✓	✓	✓
Remote Monitoring via Ethernet Port			✓	✓	✓	✓
Outlet Level Monitoring				✓		✓
Outlet Level Switching/Control					✓	✓

Specifications

General	
Safety Compliance	CE
Emissions	FCC Part 15 Class A
Cord Length	3m (10ft)
Circuit breakers	Above 16 Amps
Finish	Black, painted
Warranty	3 years
Meter Accuracy	+/-1%

Environmental	
Operating Temperature	10° to 40°C (50° to 104°F)
Storage Temperature	-25° to 65°C (-13° to 149°F)
Operating Humidity	5% to 95% (non-condensing)
Storage Humidity	5% to 95% (non-condensing)
Operating Elevation	0 to 3000 m (0 to 9842 ft)
Storage Elevation	0 to 15240 m (0 to 50000 ft)

Basic PDUs

Basic PDUs offer a lower-cost alternative for everyday, reliable power distribution when advanced features are not required, providing a robust yet economical means to distribute power to IT equipment.

Ordering Information

Mounting	Input Current	Input Voltage	Power	Input Plug	Output Receptacles	Output Voltage	Length	Part Number
Vertical	20A	120/208V	5.7kW	NEMA L21-20P	5-20R (24)	120V	66in (1680mm)	8BV11-AB24Z-K1A
Vertical	20A	120/208V	5.7kW	NEMA L21-20P	C13 (21) + C19 (3)	120V	66in (1680mm)	8BV11-BA21C-K1A
Horizontal	15A	120V	1.4kW	NEMA 5-15P	5-15R (8)	120V	19in (482.6mm)	8BH01-AA08Z-K1A
Horizontal	15A	120V	1.4kW	NEMA L5-15P	5-15R (8)	120V	19in (482.6mm)	8BH04-AA08Z-K1A
Vertical	15A	120V	1.4kW	NEMA 5-15P	5-15R (24)	120V	61in (1560mm)	8BV01-AA24Z-K1A
Vertical	15A	120V	1.4kW	NEMA L5-15P	5-15R (24)	120V	61in (1560mm)	8BV04-AA24Z-K1A
Horizontal	20A	208V	3.3kW	NEMA L6-20P	C13 (10)	208V	19in (482.6mm)	8BH07-BA10Z-K1A
Horizontal	30A	208V	4.9kW	NEMA L6-30P	C13 (10)	208V	19in (482.6mm)	8BH08-BA10Z-K1A
Vertical	20A	208V	3.3kW	NEMA L6-20P	C13 (21) + C19 (3)	208V	66in (1680mm)	8BV07-BA21C-K1A
Vertical	30A	208V	4.9kW	NEMA L6-30P	C13 (21) + C19 (3)	208V	66in (1680mm)	8BV08-BA21C-K1A
Vertical	16A	230/400V	11.0kW	IEC 60309	C13 (24) + C19 (6)	230V	70in (1785mm)	8BV26-BA24E-K1A
Vertical	32A	230/400V	22.0kW	IEC 60309	C13 (24) + C19 (6)	230V	70in (1785mm)	8BV27-BA24E-K1A
Horizontal	16A	230V	3.6kW	IEC 60309	C13 (12)	230V	19in (482.6mm)	8BH20-BA12Z-K1A
Horizontal	32A	230V	7.3kW	IEC 60309	C13 (12)	230V	19in (482.6mm)	8BH22-BA12Z-K1A
Horizontal	16A	230V	3.6kW	IEC C20	C13 (12)	230V	19in (482.6mm)	8BH33-BA12Z-K1A
Vertical	16A	230V	3.6kW	IEC 60309	C13 (21) + C19 (3)	230V	61in (1560mm)	8BV20-BA21C-K1A
Vertical	16A	230V	3.6kW	IEC 60309	C13 (24) + C19 (6)	230V	61in (1560mm)	8BV20-BA24E-K1A
Vertical	32A	230V	7.3kW	IEC 60309	C13 (24) + C19 (6)	230V	66in (1680mm)	8BV22-BA24E-K1A
Vertical	16A	230V	3.6kW	IEC C20	C13 (24) + C19 (6)	230V	61in (1560mm)	8BV33-BA24E-K1A

Other configurations are available - please contact your local Technical Support Group for more information.



Metered PDUs

Metered PDUs provide local visual monitoring capability through a built-in LED meter that displays real-time power data. Metered PDUs are a cost-effective alternative for providing more intelligence than basic PDUs.

Ordering Information

Mounting	Input Current	Input Voltage	Power	Input Plug	Output Receptacles	Output Voltage	Length	Part Number
Vertical	20A	120/208V	5.7kW	NEMA L21-20P	5-20R (24)	120V	1785mm (70 in.)	8TV11-AB24Z-K1A
Vertical	20A	120/208V	5.7kW	NEMA L21-20P	C13 (21) + C19 (3)	120V	1785mm (70 in.)	8TV11-BA21C-K1A
Horizontal	15A	120V	1.4kW	NEMA L5-15P	5-15R (8)	120V	482.6mm (19 in.)	8TH04-AA08Z-K1A
Vertical	15A	120V	1.4kW	NEMA L5-15P	5-15R (24)	120V	1560mm (61 in.)	8TV04-AA24Z-K1A
Horizontal	20A	208V	3.3kW	NEMA L6-20P	C13 (10)	208V	482.6mm (19 in.)	8TH07-BA10Z-K1A
Horizontal	30A	208V	4.9kW	NEMA L6-30P	C13 (10)	208V	482.6mm (19 in.)	8TH08-BA10Z-K1A
Vertical	20A	208V	3.3kW	NEMA L6-20P	C13 (21) + C19 (3)	208V	1680mm (66 in.)	8TV07-BA21C-K1A
Vertical	30A	208V	4.9kW	NEMA L6-30P	C13 (21) + C19 (3)	208V	1680mm (66 in.)	8TV08-BA21C-K1A
Vertical	16A	230/400V	11.0kW	IEC 60309	C13 (24) + C19 (6)	230V	1850mm (73 in.)	8TV26-BA24E-K1A
Vertical	32A	230/400V	22.0kW	IEC 60309	C13 (24) + C19 (6)	230V	1850mm (73 in.)	8TV27-BA24E-K1A
Horizontal	16A	230V	3.6kW	IEC C20	C13 (12)	230V	482.6mm (19 in.)	8TH33-BA12Z-K1A
Horizontal	32A	230V	7.3kW	IEC 60309	C13 (12)	230V	482.6mm (19 in.)	8TH22-BA12Z-K1A
Vertical	16A	230V	3.6kW	IEC 60309	C13 (24) + C19 (6)	230V	1680mm (66 in.)	8TV33-BA24E-K1A
Vertical	32A	230V	7.3kW	IEC 60309	C13 (24) + C19 (6)	230V	1785mm (70 in.)	8TV22-BA24E-K1A

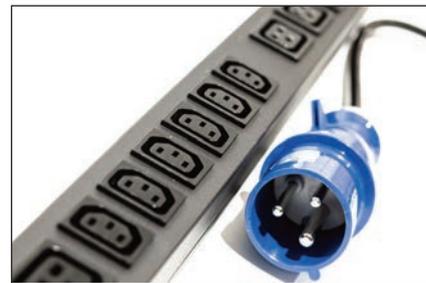
Other configurations are available - please contact your local Technical Support Group for more information.



- Single phase PDUs display current voltage.
- Three-phase PDUs display voltage and current for each phase.



Three-Phase



Single-Phase

PowerMax™ Intelligent PDUs

With an industry-leading accuracy of $\pm 1\%$, Siemon's line of PowerMax Intelligent PDUs are ideal for reducing energy costs, managing and optimising power capacity, and identifying and preventing potential problems to ensure uptime and improve power usage effectiveness (PUE).

PowerMax Intelligent PDUs identify high and erratic power consumption, underutilised equipment and overcooling situations to save operating costs, while collecting information on actual usage, true power needs and capacity to make informed decisions regarding equipment density, consolidation, and moves, adds and changes. They reduce downtime via real-time monitoring of environmental conditions at the cabinet level via sensor ports and potential problems such as overloads. Smart, Switched and Managed PDUs enable individual outlet control for remotely restarting or shutting down specific equipment.

- IP address sharing enables 4 PDUs to share a single IP address in a master-slave hierarchy
- Optional lights-out mode turns off PDU displays after 15 seconds to reduce power consumption of the PDU itself
- Display rotation facilitates screen reading whether the power supply is delivered from above or below
- Embedded web-based intuitive interface or accessible via any third-party software via SNMP
- Outlet grouping and group access control for Smart, Switched and Managed PDUs facilitate overall management



User-Friendly Firmware

Embedded in PowerMax™ Intelligent PDUs is a firmware that enables access to each PDU via a web browser that features an intuitive user interface for viewing real-time monitoring information. Simple, easy-to-read log trends and graphs display historical data of power and environmental conditions at the device or outlet level. Accessing PDUs via the web browser offers improved user control, allowing for configuring IP address sharing, setting alarm thresholds, grouping outlets, assigning users to different groups, and establishing outlet group access to user groups. PowerMax Intelligent PDUs can also be accessed with third-party software via SMNP using the Ethernet port.



- Easy-to-read graphs display power and environmental conditions
- For Smart, Switched and Managed intelligent PowerMax PDUs, six outlet groups can be configured and user groups can be assigned / denied access to outlet groups

Monitored PDUs

Monitored PDUs enable remote monitoring at an aggregate, device-level via an Ethernet port, generating a smaller quantity of information to simplify management.

- Built-in display for local use
- Device level monitoring
- Remote monitoring via Ethernet port
- Environmental sensor ports
- IP address sharing
- Log trends and historical data
- User defined alarms



Ordering Information

Mounting	Input Current	Input Voltage	Power	Input Plug	Output Receptacles	Output Voltage	Length	Part Number
Vertical	20A	120/208V	5.7kW	NEMA L21-20P	5-20R (24)	120V	1850mm (73 in.)	8MV11-AB24Z-K1A
Vertical	20A	120/208V	5.7kW	NEMA L21-20P	C13 (21) + C19 (3)	120V	1850mm (73 in.)	8MV11-BA21C-K1A
Horizontal	15A	120V	1.4kW	NEMA L5-15P	5-15R (8)	120V	482.6mm (19 in.)	8MH04-AA08Z-K1A
Vertical	15A	120V	1.4kW	NEMA L5-15P	5-15R (24)	120V	1850mm (73 in.)	8MV04-AA24Z-K1A
Vertical	20A	208V	3.3kW	NEMA L6-20P	C13 (21) + C19 (3)	208V	1850mm (73 in.)	8MV07-BA21C-K1A
Vertical	30A	208V	4.9kW	NEMA L6-30P	C13 (21) + C19 (3)	208V	1850mm (73 in.)	8MV08-BA21C-K1A
Vertical	16A	230/400V	11.0kW	IEC 60309	C13 (24) + C19 (6)	230V	1850mm (73 in.)	8MV26-BA24E-K1A
Vertical	32A	230/400V	22.0kW	IEC 60309	C13 (21) + C19 (3)	230V	1850mm (73 in.)	8MV27-BA21C-K1A
Horizontal	16A	230V	3.6kW	IEC 60309	C13 (8)	230V	482.6mm (19 in.)	8MH20-BA08Z-K1A
Horizontal	16A	230V	3.6kW	IEC C20	C13 (8)	230V	482.6mm (19 in.)	8MH33-BA08Z-K1A
Horizontal	32A	230V	7.3kW	IEC 60309	C13 (8)	230V	482.6mm (19 in.)	8MH22-BA08Z-K1A
Vertical	16A	230V	3.6kW	IEC 60309	C13 (24) + C19 (6)	230V	1850mm (73 in.)	8MV20-BA24E-K1A
Vertical	16A	230V	3.6kW	IEC 60309	C13 (36)	230V	1850mm (73 in.)	8MV20-BA36Z-K1A
Vertical	16A	230V	3.6kW	IEC C20	C13 (24) + C19 (6)	230V	1850mm (73 in.)	8MV33-BA24E-K1A
Vertical	32A	230V	7.3kW	IEC 60309	C13 (18) + C19 (6)	230V	1850mm (73 in.)	8MV22-BA18E-K1A
Vertical	32A	230V	7.3kW	IEC 60309	C13 (36)	230V	1850mm (73 in.)	8MV22-BA36Z-K1A

Smart PDUs

Smart PDUs offer a higher level of monitoring at the device or outlet-level via an Ethernet port. Smart PDUs offer the ability to configure outlets into up to six groups and assign user group access to specific outlets groups.

- Built-in display for local use
- Device level monitoring
- Remote monitoring via Ethernet port
- Outlet level monitoring
- Environmental sensor ports
- IP address sharing
- Log trends and historical data
- User defined alarms



Ordering Information

Mounting	Input Current	Input Voltage	Power	Input Plug	Output Receptacles	Output Voltage	Length	Part Number
Vertical	20A	120/208V	5.7kW	NEMA L21-20P	5-20R (24)	120V	1850mm (73 in.)	8NV11-AB24Z-K1A
Vertical	20A	120/208V	5.7kW	NEMA L21-20P	C13 (21) + C19 (3)	120V	1850mm (73 in.)	8NV11-BA21C-K1A
Horizontal	15A	120V	1.4kW	NEMA L5-15P	5-15R (8)	120V	482.6mm (19 in.)	8NH04-AA08Z-K1A
Vertical	15A	120V	1.4kW	NEMA 5-15P	5-15R (8)	120V	482.6mm (19 in.)	8NH01-AA08Z-K1A
Vertical	15A	120V	1.4kW	NEMA L5-15P	5-15R (24)	120V	1850mm (73 in.)	8NV04-AA24Z-K1A
Vertical	20A	208V	3.3kW	NEMA L6-20P	C13 (21) + C19 (3)	208V	1850mm (73 in.)	8NV07-BA21C-K1A
Vertical	30A	208V	4.9kW	NEMA L6-30P	C13 (21) + C19 (3)	208V	1850mm (73 in.)	8NV08-BA21C-K1A
Vertical	32A	230/400V	22.0kW	IEC 60309	C13 (21) + C19 (3)	230V	1850mm (73 in.)	8NV27-BA21C-K1A
Vertical	16A	230V	3.6kW	IEC 60309	C13 (21) + C19 (3)	230V	1850mm (73 in.)	8NV20-BA21C-K1A
Vertical	16A	230V	3.6kW	IEC C20	C13 (21) + C19 (3)	230V	1850mm (73 in.)	8NV33-BA21C-K1A
Horizontal	32A	230V	7.3kW	IEC 60309	C13 (8)	230V	482.6mm (19 in.)	8NH22-BA08Z-K1A
Vertical	32A	230V	7.3kW	IEC 60309	C13 (21) + C19 (3)	230V	1850mm (73 in.)	8NV22-BA21C-K1A
Horizontal	16A	230V	3.6kW	IEC C20	C13 (8)	230V	482.6mm (19 in.)	8NH33-BA08Z-K1A
Horizontal	16A	230V	3.6kW	IEC 60309	C13 (8)	230V	482.6mm (19 in.)	8NH20-BA08Z-K1A

Switched PDUs

Switched PDUs combine total monitoring with outlet-level switching that enables users to remotely control individual receptacles, allowing equipment to be restarted or remotely shut down. Switched PDUs offer the ability to configure outlets into up to six groups and assign user group access to specific outlets groups.

- Built-in display for local use
- Device level monitoring
- Remote monitoring via Ethernet port
- Environmental sensor ports
- Outlet level switching/control
- IP address sharing
- Log trends and historical data
- User defined alarms



Ordering Information

Mounting	Input Current	Input Voltage	Power	Input Plug	Output Receptacles	Output Voltage	Length	Part Number
Vertical	20A	120/208V	5.7kW	NEMA L21-20P	5-20R (24)	120V	1850mm (73 in.)	8SV11-AB24Z-K1A
Vertical	20A	120/208V	5.7kW	NEMA L21-20P	C13 (21) + C19 (3)	120V	1850mm (73 in.)	8SV11-BA21C-K1A
Horizontal	15A	120V	1.4kW	NEMA 5-15P	5-15R (8)	120V	482.6mm (19 in.)	8SH01-AA08Z-K1A
Horizontal	15A	120V	1.4kW	NEMA L5-15P	5-15R (8)	120V	482.6mm (19 in.)	8SH04-AA08Z-K1A
Vertical	15A	120V	1.4kW	NEMA L5-15P	5-15R (24)	120V	1850mm (73 in.)	8SV04-AA24Z-K1A
Vertical	20A	208V	3.3kW	NEMA L6-20P	C13 (21) + C19 (3)	208V	1850mm (73 in.)	8SV07-BA21C-K1A
Vertical	30A	208V	4.9kW	NEMA L6-30P	C13 (21) + C19 (3)	208V	1850mm (73 in.)	8SV08-BA21C-K1A
Horizontal	32A	230/400V	22.0kW	IEC 60309	C13 (21) + C19 (3)	230V	1850mm (73 in.)	8SV27-BA21C-K1A
Horizontal	16A	230V	3.6kW	IEC 60309	C13 (8)	230V	482.6mm (19 in.)	8SH20-BA08Z-K1A
Horizontal	16A	230V	3.6kW	IEC C20	C13 (8)	230V	482.6mm (19 in.)	8SH33-BA08Z-K1A
Horizontal	32A	230V	7.3kW	IEC 60309	C13 (8)	230V	482.6mm (19 in.)	8SH22-BA08Z-K1A
Horizontal	32A	230V	7.3kW	IEC 60309	C13 (21) + C19 (3)	230V	1850mm (73 in.)	8SV22-BA21C-K1A
Vertical	16A	230V	3.6kW	IEC 60309	C13 (21) + C19 (3)	230V	1850mm (73 in.)	8SV20-BA21C-K1A
Vertical	16A	230V	3.6kW	IEC C20	C13 (21) + C19 (3)	230V	1850mm (73 in.)	8SV33-BA21C-K1A

Managed PDUs

Managed PDUs offer the highest level of control and monitoring with outlet-level monitoring and outlet-level switching that enable users to remotely monitor and control individual receptacles. Managed PDUs offer the ability to configure outlets into up to six groups and assign user group access to specific outlets groups.

- Built-in display for local use
- Device level monitoring
- Remote monitoring via Ethernet port
- Environmental sensor ports
- Outlet level monitoring
- Outlet level switching/control
- IP address sharing
- Log trends and historical data
- User defined alarms



Ordering Information

Mounting	Input Current	Input Voltage	Power	Input Plug	Output Receptacles	Output Voltage	Length	Part Number
Vertical	20A	120/208V	5.7kW	NEMA L21-20P	5-20R (24)	120V	1850mm (73 in.)	8WV11-AB24Z-K1A
Vertical	20A	120/208V	5.7kW	NEMA L21-20P	C13 (21) + C19 (3)	120V	1850mm (73 in.)	8WV11-BA21C-K1A
Horizontal	15A	120V	1.4kW	NEMA 5-15P	5-15R (8)	120V	482.6mm (19 in.)	8WH01-AA08Z-K1A
Horizontal	15A	120V	1.4kW	NEMA L5-15P	5-15R (8)	120V	482.6mm (19 in.)	8WH04-AA08Z-K1A
Vertical	15A	120V	1.4kW	NEMA L5-15P	5-15R (24)	120V	1850mm (73 in.)	8WV04-AA24Z-K1A
Vertical	20A	208V	3.3kW	NEMA L6-20P	C13 (21) + C19 (3)	208V	1850mm (73 in.)	8WV07-BA21C-K1A
Vertical	30A	208V	4.9kW	NEMA L6-30P	C13 (21) + C19 (3)	208V	1850mm (73 in.)	8WV08-BA21C-K1A
Vertical	32A	230/400V	22.0kW	IEC 60309	C13 (21) + C19 (3)	230V	1850mm (73 in.)	8WV27-BA21C-K1A
Horizontal	16A	230V	3.6kW	IEC 60309	C13 (8)	230V	482.6mm (19 in.)	8WH20-BA08Z-K1A
Horizontal	16A	230V	3.6kW	IEC C20	C13 (8)	230V	482.6mm (19 in.)	8WH33-BA08Z-K1A
Vertical	16A	230V	3.6kW	IEC 60309	C13 (21) + C19 (3)	230V	1850mm (73 in.)	8WV20-BA21C-K1A
Vertical	16A	230V	3.6kW	IEC C20	C13 (21) + C19 (3)	230V	1850mm (73 in.)	8WV33-BA21C-K1A
Vertical	32A	230V	7.3kW	IEC 60309	C13 (21) + C19 (3)	230V	1850mm (73 in.)	8WV22-BA21C-K1A

PowerMax™ PDU Accessories

Temperature/Humidity Sensor 8ACC-S-TEHU

Each PowerMax PDU can be fitted with two temperature/humidity sensors, providing the customer with accurate environmental measurements at the cabinet level



Item	Parameter	
Environment	Working temperature	0°C-55°C (32F - 131°F)
Temperature Measurement	Relative Humidity	10-90%
	Range	-40°C - 95°C (-40°F - 203°F)
	Resolution	0.1°C (32.2°F)
	Accuracy	0.5°C (32.9°F)
	Response time	400ms
Humidity Measurement	Range	0 - 95%
	Resolution	0.1%
	Accuracy	0.5%
	Response time	400ms
Working Voltage	5V DC	
Power Consumption	1.0W	



A variety of additional sensors are available for use with PowerMax PDUs. Visit www.siemon.com for a complete listing or contact customer service.

PowerMax™ Manager Software

Siemon's PowerMax Manager is an easy-to-use application that provides an intuitive graphical interface for monitoring and managing up to 200 Siemon power distribution units (PDUs). Ideal for data centres and telecommunications spaces, users can set up multiple equipment room layouts that graphically depict cabinets and PDU locations. Depending on the intelligence level and functionality of the PDU, PowerMax Manager collects status, power usage and environmental data to provide room, cabinet, PDU and port level information, including total power usage and environmental data via any connected PDU temperature and humidity sensors. With multiple levels of granularity and control, PowerMax Manager enables individual PDU ports to be turned on or off and sends alarms based on user-defined thresholds, helping data centre managers avoid downtime, maximise asset utilisation and improve overall power usage effectiveness (PUE).

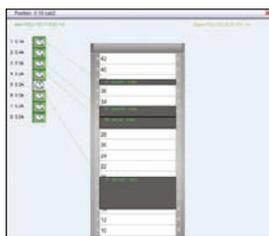
Multiple Room Displays — Users can set up multiple server rooms depicting cabinet layouts and PDU locations

PDU Status — PDU alarm status and environmental information is displayed for each PDU*

Room Overview — Provides PDU status, overall power usage, critical environmental data and granular power line current and voltage information*



Web Browser Capability — System users can view PowerMax Manager data via compatible web browser for remote monitoring



Monitor Up to 200 PDUs — PowerMax Manager displays power, environmental data, and port, PDU and alarm status for up to 200 Siemon PDUs*



Manage at the Device Level — Easily add devices to a cabinet with device information and assign rack unit location, PDU and PDU ports

* PowerMax Manager capabilities are based on PDU intelligence level, functionality and accessories (i.e. environmental sensors).

Ordering Information:

Part #	Description
PM-SWL-A.....	PowerMax manager software

PowerMax Manager Software is optimised for use with Siemon's PowerMax line of intelligent PDUs, available with varying degrees of intelligence, including managed, metered, monitored, smart and switched.

SYSTEM REQUIREMENTS

Requirement	Component and Version
Operating System	Windows 7 or higher
Client Web Access	Internet Explorer, Firefox and Google Chrome