MITSUBISHI ELECTRIC
HYDRONICS & IT COOLING SYSTEMS S.p.A.

IT COOLING

DATA CENTER INFRASTRUCTURE

PDU SOLUTIONS

QUALITY
RACK POWER
TECHNOLOGY

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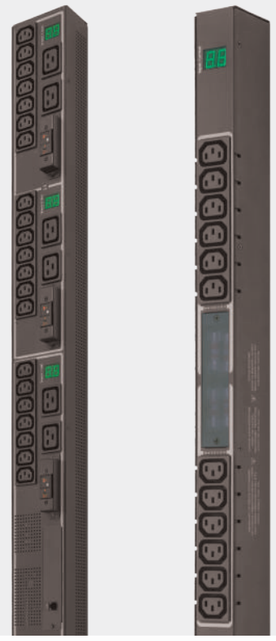
RC IT COOLING

RC PDU

POWER DISTRIBUTION SOLUTIONS FOR DATA CENTER EQUIPMENT CABINET

RC PDU is the new power distribution range of products that help to manage power capacity, reduce downtime and improve energy efficiency inside your data center.



RC PDU is the new power distribution range of products that help to manage power capacity, reduce downtime and improve energy efficiency inside your data center.

The new RC range includes an extensive selection of PDUs to manage power usage for servers, storage and network equipment.

All the products are manufactured to meet the highest quality standards and are 100% performance tested for reliability and accuracy.

Certifications & Compliance

All PDU products comply with one or more of the certifications below:

- European Union (TUVGS mark) to EN 60950-1:2001
- EMC – EN 55022 Class A, EN 55024
- CE
- UL 60950-1

Certifications & Compliance

Branch circuit protection:
PDUs are UL 60950-1 certified for branch circuit protection and use fuses or circuit breakers to protect each outlet branch.

Input current monitoring:
Easy-to-read LEDs display current per phase to help prevent overloads & simplify 3-phase load balancing in high density cabinets.

Temperature/Humidity Monitoring:
Master and Link units each support two external 10’ (3m) T/H probes. Receive SNMP-based alerts and email notifications.

Linked Expansion:
Exclusive method for linking additional PDUs together under a single IP address with support for A & B power in-feeds.

Star Multi-link Expansion Kit PRO2 :
PRO2 provides the ability to link up to four power circuits using one IP address. Kit sold separately.Email, & Syslog.

IP access, security & communications:
Web, SSH, Telnet, SNMPv2c & v3, RS-232 serial, 10/100 Base T-Ethernet, LDAP(S), TACACS+, RADIUS, DHCP, & SMTP/email.

Outlet control:
On Switched PDUs, cycle power to individual outlets or groups of outlets to reboot servers; or to power off unused receptacles.

Pops® (Per outlet power sensing):
Monitor Current Load (A), Voltage (V), Power (W), Apparent Power (VA), Crest Factor, Power Factor, and Energy per outlet.

Pips® (Per inlet power sensing):
Monitor Current Load (A), Voltage (V), Power (W), Apparent Power (VA), Crest Factor, Reactance, Accumulated Energy (kWh), and Power Factor per inlet.

Startup Stick:
The quick and easy solution to PDU configuration when DHCP is not available.

HDOT® (High Density Outlet Technology):
Maximize outlet density with our uniquely designed, high density modules for standard C13 & C19 outlets.

Alternating Phase:
Phased power is alternated between each outlet, instead of each branch, which simplifies load balancing and clutter.

Branch Current Monitoring PRO2 :
PRO2 monitors current at each breaker/fuse branch and alerts when high usage risks a tripped circuit.

High Temperature Rating:
Products are tested and approved for safe and reliable operation in 60°C (140°F) data center environments.

Hot Swappable Network Card with Backup Power PRO2 :
Network access is ensured when power is lost to the Master unit with backup power provided by the primary link unit.

Power Pivot™:
The 90° rotatable power cord allows for standardized deployment at any facility no matter where power must be routed.

ST Eye Mobile App with Bluetooth Connectivity:
The best PDU LCD is the one in your hand. Attach the ST Eye Bluetooth module for access to power data & system settings.

Flexible mounting::
Includes standard button mounts along with provisions for custom mounting brackets (contact Server Tech for details).

Cable retention:
Reduces accidental disconnects by ensuring that power cords are solidly connected to their respective devices.

Color Coded PDUs:
Select from six colors to designate PDU circuits in the data center — black, white, red, green, blue, and yellow.

RC PDU PRODUCT RANGE

PDU VERSIONS

Basic PDU

Basic PDU is an entry level product that provides reliable power distribution and branch circuit protection for all the devices in the equipment cabinet.

Metered PDU

Metered PDU products provide branch circuit protection and reliable power distribution for all devices in the equipment cabinet. Local input current monitoring allows the installation engineer to verify the aggregate load on the circuit or phase.

Smart PDU

Smart PDU products provide reliable power distribution coupled with remote power and environmental monitoring. Use the network interface to view power, temperature and humidity levels via Web browser, or SNMP-based and email alerts when conditions exceed defined thresholds. Add an Expansion.

Switched PDU

Switched PDU products provide the same reliable power distribution, monitoring, and alerting as the Smart PDU while adding outlet On/Off/Reboot control. Use the Switched PDU to cycle power on dual power IT equipment with one command. With outlet control, gain features like power-up sequencing and smart load shedding.

POPS® Smart & Switched PDU

Adds Per Outlet Power Sensing (POPS) to the Switched PDU which provides power monitoring per an individual outlet/device. Power information per individual outlet / device includes current, voltage, power (kW), apparent power, crest factor, and power factor. Using our grouping technology, power information is available per device, groups of devices (application), individual PDU or cabinet.

PIPS® Smart & Switched PDU

Per Inlet Power Sensing (PIPS) PDUs provide expansive high-accuracy power monitoring per inlet/infeed.
This includes current, voltage, power (kW), apparent power, crest factor, power factor, and accumulated energy. With this feature there is no need to add more expensive, less accurate panel monitoring upstream.

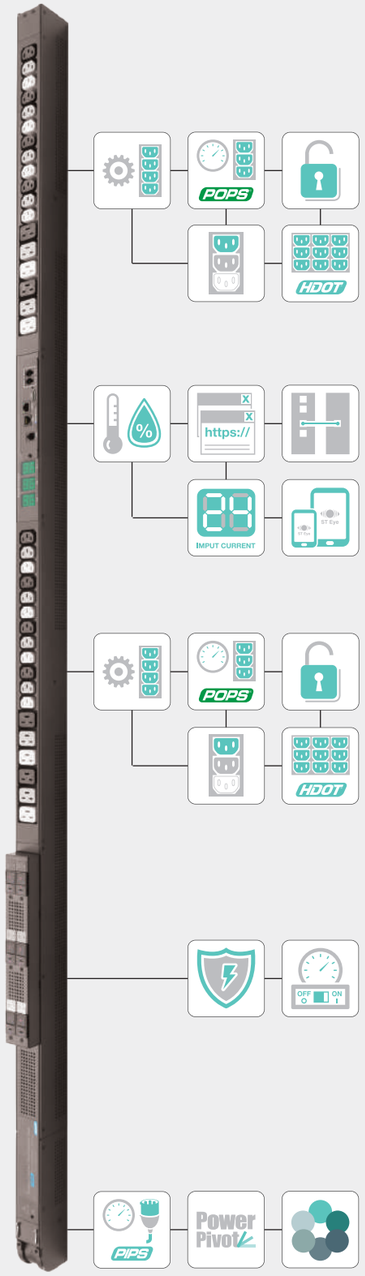
PRO2™ PDU

Improve uptime by maintaining high availability to your data through redundantly powered hot-swappable network cards and multi-link capability. Gain additional insight into rising loads or heat through multi-level alarms.

Fail-Safe Transfer Switch (FSTS)

The Fail-Safe Transfer Switch features two input power feeds, providing redundancy for single-supply equipment. If either power in-feed halts, the FSTS auto-switches to the remaining in-feed to retain power to the equipment.

*Some features may only be available on select models.



PRO2™ PDU
The Next Evolution in PDU Design

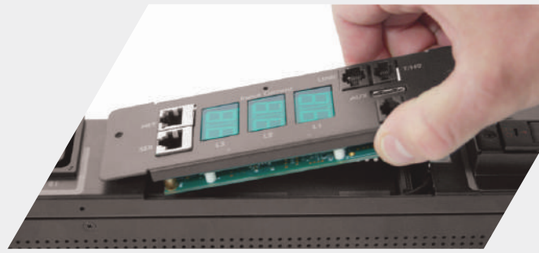
Designed to satisfy the most demanding application requirements, PRO2's flexible hardware platform features more outlets, a faster processor, improved firmware and security, more redundancy, more customization and additional resiliency.

With PRO2, customers can maintain uptime with access to current data and future trends:

- Maintain high availability to your data
- Stay informed of rising loads
- Be proactive on your power supply management
- Plan your future success

PRO2 shows a 20% smaller form than traditional products, with a 25% increase in outlet density that allows the PRO2 to be utilized in a wider range of cabinets and configurations.

The network interface card is hot swappable in the field without changing the state of the outlets. In the unlikely event that the network card fails, it can easily be replaced under power without any additional configuration required.

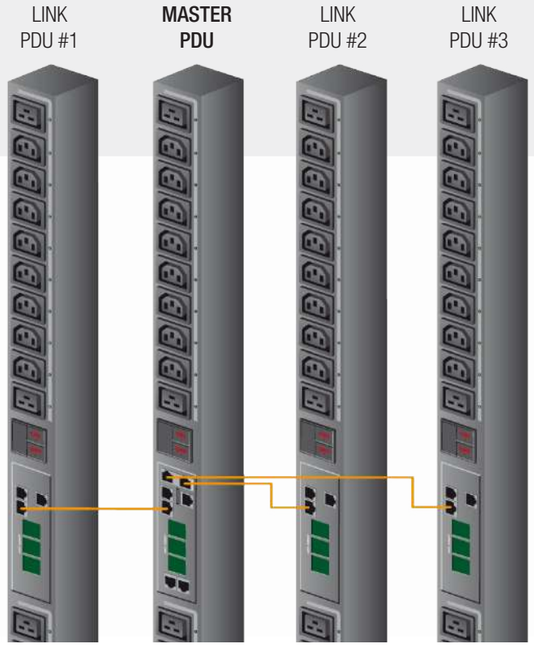


Basic PDU

- Hot-swappable, redundantly-powered network card — from link PDU (shown above)
- Branch current measurements and multi-level alerts
- Shallower enclosure when compared to previous generation PDU
- More alarms and configuration options compared to previous generation PDU
- Star architecture multi-linking for connection of up to 3 Link units per Master PDU, allowing for 1 IP address for 2 cabinets

Key Intelligent PDU Benefits

- PIPS® and/or POPS® high-accuracy measurements of current, voltage, power, and other key power metrics
- Environmental measurements via plug-and-play probes (including link PDU)
- Use PM (Power Manager) for data center monitoring
- SNMP traps and email alerts



Star architecture multi-linking

- Linking of up to 3 Link units per Master PDU (1 IP address for 2 cabinets)
- No need for a network card (if one of the link units experiences a failure, the user will not lose communication with the other linked units)
- Perfect uptime 24/7 (In case of master unit power outage, redundant power is provided to the network interface of the Master unit via the first link unit)

RC PDU PRODUCT RANGE

STARTUP STICK
Increases the speed of the PDU deployment

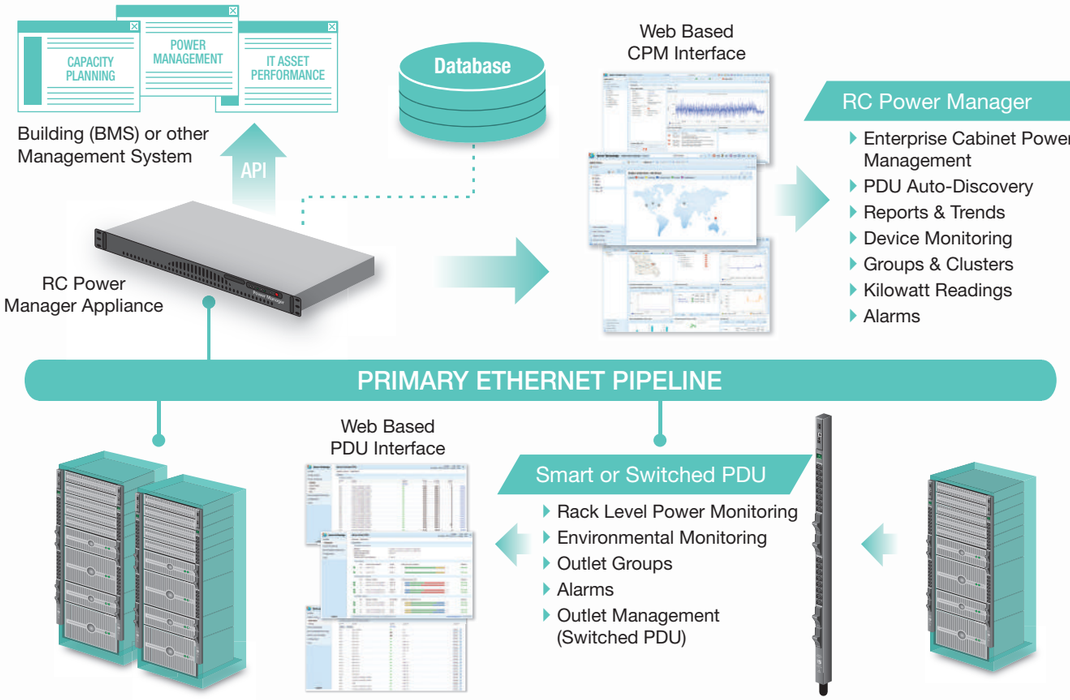
The StartUp Stick provides a unique means to more easily create individual PDU configurations, including IP addresses, on a computer workstation and be able to mass deploy these configurations to each PDU in mere seconds. You get a spreadsheet-based tool with built-in rules verification, a standard USB interface for PC/MAC, simple LED pass/fail indicator, & on-board logging.

Benefits of using StartUp Stick for your next PDU deployment:

- No DHCP, no problem: One StartUp Stick to get thousands of PDUs on your network
- No **scripting**: Set the configuration of as many as 79 parameters at the comfort of your desk
- No need to lug your laptop or crash-cart around the data center: Configure in rack or at powered bench
- ROI in a matter of hours: 5-second typical configuration load time per unit with LED confirmation
- Leverage expansion PDUs for even further reduction in configuration time
- Speed up integration of CPM using scheduled discovery and **SNAP** to start monitoring right away
- **Requirements**: PC/MAC running Microsoft Excel 2007 with VBA or higher & CDU or PRO2 units running v7.0s or v8.0c firmware minimum

RC POWER MANAGER (CPM)
Manage multiple PDUs across multiple locations

In case of multiple RC PDUs in one or more locations that you would like to access from one central point, the RC Power Manager (CPM) product is capable of monitoring and managing multipleRC devices in IP-based enterprise networks. CPM provides a global view of all RC PDUs with the ability to view devices based on their temperature, humidity, current and device status. Besides managing and monitoring all alarm conditions, this information can also be used to provide reporting and trending information for display within CPM or integrated with your existing Building Management System (BMS).



Main features

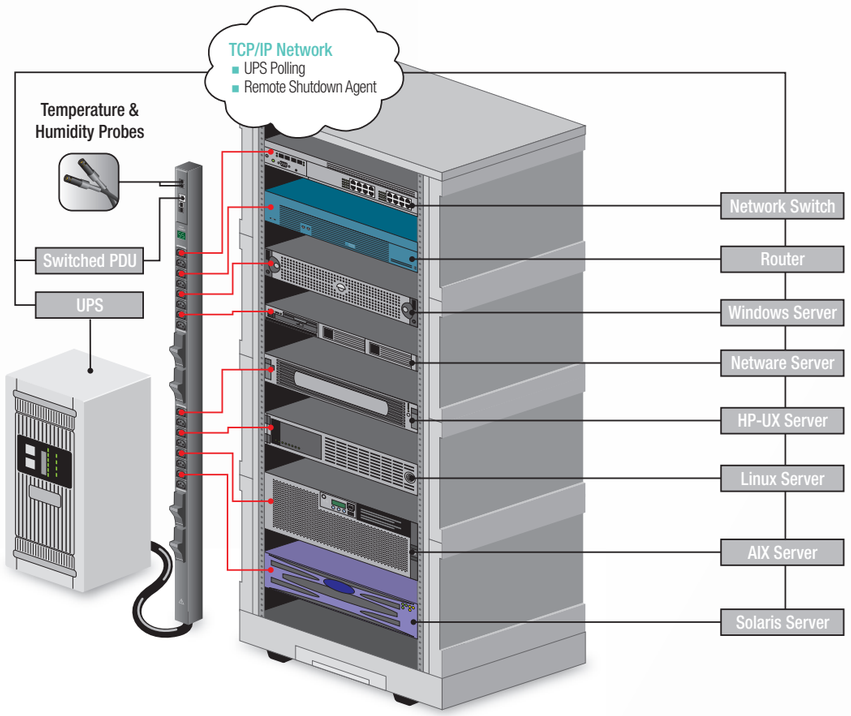
- CPM provides a global view of all RC PDUs with the ability to view devices based on their temperature, humidity, current and device status
- Manage and monitor all user-defined alarm conditions on your entire network
- Group and cluster outlets for remote reboot, power measurement information across a single PDU, a linked PDU, or across the entire network
- Allows measurement of power consumption and capacity planning
- Auto-discover all your PDUs connected to your IP network
- View Logs for user access, discovery, user actions, and alarms
- Multiple user levels and permissions including support for LDAP
- Control individual outlets on Switched PDUs

RC PDU PRODUCT RANGE

RC SMART LOAD SHEDDING
Load Management based on Temperature, In-feed Load, and UPS Status

RC Smart Load Shedding provides data center managers with the ability to automatically manage Switched PDU power outlets based on key operating parameters, including temperature, in-feed load, and UPS power status.

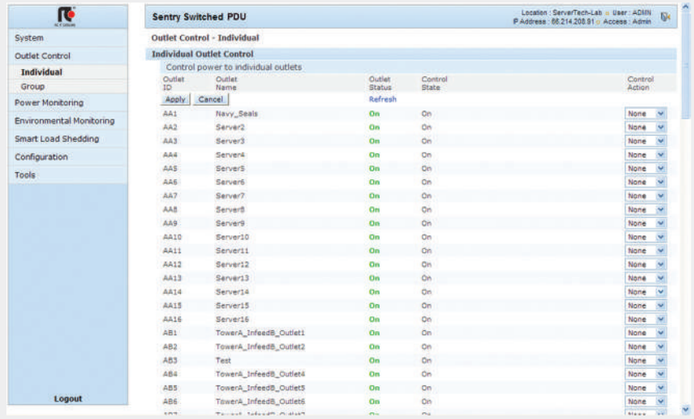
Each outlet may be controlled by one or more of these parameters. Should the temperature or load current exceed defined thresholds or the UPS lose power and go onto battery, all or a portion of the loads may be automatically shed to ensure longer operational life of your critical devices.



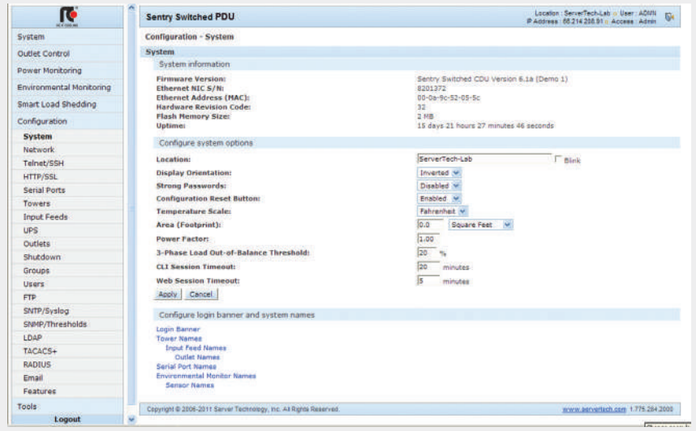
Main features

- Easy to use, integral, web based **GUI** configuration tool.
- “Auto-recovery” with a reboot delay time when conditions return to normal.
- Each PDU outlet is assigned the IP address of the connected device for shut down notification.
- Remote shutdown agent for server shut down.
- SNMP trap notifications.
- Load shedding event notifications via SNMP traps or e-mail alerts.

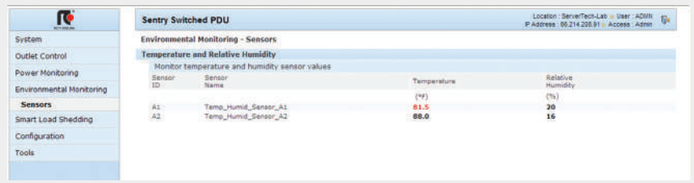
RC IT COOLING ACCESS, SECURITY & COMMUNICATION
Secure Remote Administration Interface



Web Based GUI: Individual Outlet Control Screen



Web Based GUI: System Configuration Screen



Web Based GUI: Environmental Monitoring Screen

Features

- Secure, web based GUI configuration tool
- Temperature Support (Celsius/ Fahrenheit) and Humidity (%)
- Logs authentications, configuration changes and system events
- SNMP and email notifications for multiple users of log, event, power, and authorization, configuration messages
- SYSLOG logging protocol support
- Automatic Firmware Updates via FTP
- Strong Password Support and Pre-Login Banner

Power Information

- Input Feed Voltage (VAC)
- Input Feed Watts (W)
- System Total Watts (W)
- System Footprint (SqFt / SqM)
- System Watts/Area (W/SqFt / W/SqM)

Communication Tools

- Web interface, SSL, SSH, Telnet, SNMP & RS-232 access, 10/100 Base T-Ethernet, SSLv3/TLSv1, SNMPv2, ACACS+, LDAP, LDAPS, RADIUS, DHCP, SMTP/ Email, and Syslog.

RC PDU
SMART & SWITCHED PDU WITH PIPS®

PER INLET POWER SENSING PDUS PIPS

PIPS technology replaces power monitoring at the RPP (Remote Power Panel) in data centers with higher accuracy in the monitoring of each power circuit attached to the PDU. This feature enhances equipped Smart, Switched, and POPS PDUs with the most accurate and extensive metrics on the market.

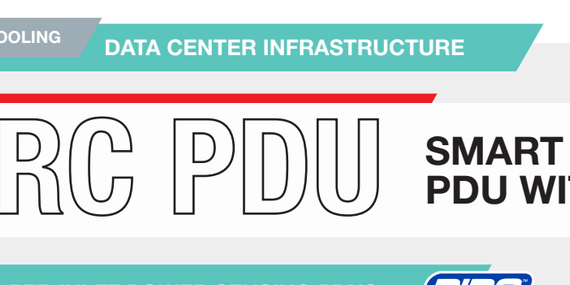
PIPS Features

- Power monitoring per inlet/infeed (current, voltage, power, apparent power, crest factor, reactance, power factor and accumulated energy)
- Easy access through either a secure network or serial connection
- Integral web interface for simple and easy monitoring of the PDU
- Several configuration choices: SNMP traps, email alerts, grouping, and all security and communication settings

Communication Tools

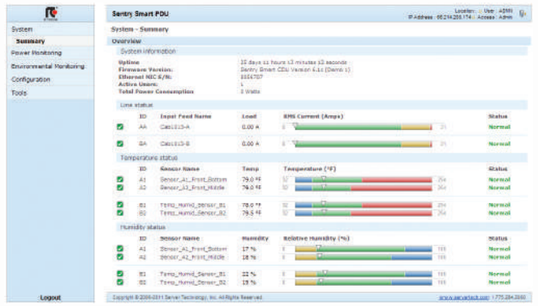
- Web Interface
- RS-232 access
- 10/100 Base-T Ethernet
- SMTP/Email
- Telnet
- SSH
- SSLv3/TLSv1
- SNMPv2
- TACACS+
- LDAP
- LDAPS
- RADIUS
- DHCP
- Syslog

Power information & management - Internal Web Interface

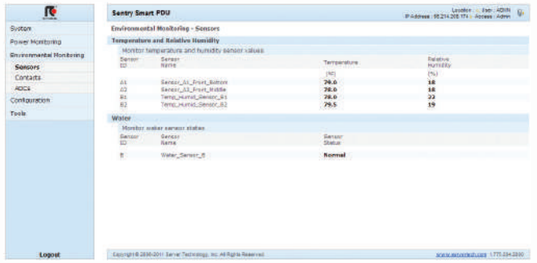


System Configuration
Intelligent PDUs enable network access to remotely configure access, outlets, alarms, thresholds, and more.

Easy to read summary screen
The new summary screen allows users to quickly confirm the status of the rack power & environmental conditions.



Per Inlet/Infeed Power Information
- Current (Amps)
- Power (Watts)
- Power Factor
- Neutral Current:
- Voltage (Volts)
- Apparent Power (VA)
- Accumulated Energy (kWh)



Environmental Monitoring
No additional IP address needed to obtain temperature and humidity readings. A pair of probes (EMTH-1-1) can be added to any intelligent master PDU (Smart or Switched).

RC PDU
SMART & SWITCHED PDU WITH POPS®

PER OUTLET POWER SENSING PDUS POPS

POPS Features

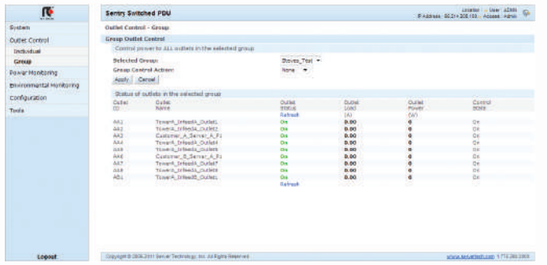
- Simple, secure, integral web interface GUI configuration tool
- Temperature and Humidity Support
- Authentication logging, configuration changes and system events
- Secure Syslog protocol support
- Email notifications of log, event, authorization, power and configuration messages
- Automatic Firmware Updates via FTP server
- Strong Password Support and Pre-Login Banner
- Ability to ping an IP address to see if the device is responding
- Grouping of outlets across Master & Expansion PDUs
- SNMP: Traps based on Status, Changes, Load, Temperature and Humidity

Communication Tools

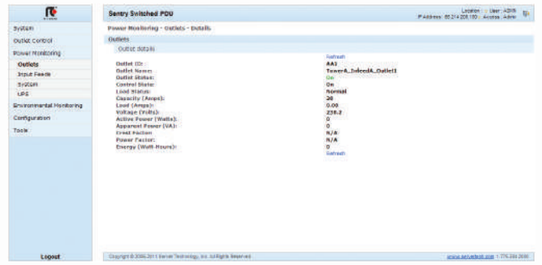
- Web Interface
- RS-232 access
- 10/100 Base-T Ethernet
- SMTP/Email
- Telnet
- SSH
- SSLv3/TLSv1

Outlet Control Power Monitoring
- Individual Outlet Control
- Current Load Monitoring
- Power Monitoring
- Additional Details

Per PDU Power Information
- Current Load
- Infeed Voltage (VAC)
- Input Feed Watts (W)
- System Total Watts (W)
- System Footprint (SqFt / SqM)
- System Watts (W/SqFt / W/SqM)



Grouped Outlets Power Information*
- Cabinet (single IP address using master/expansion configuration for two PDUs)
- Device (Multiple Outlets)
- Group of Devices (Application)
- Individual PDU:

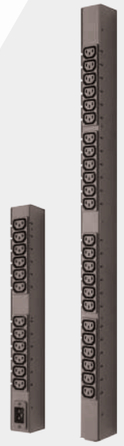


Per Outlet Power Information
- Current Load (A)
- Voltage (V)
- Power (W)
- Apparent Power (VA)
- Crest Factor
- Power Factor

BASIC PDU

Zero-U Vertical Enclosures & Horizontal Rack Mounted Enclosures

Model	EV0 - 1	EV0 - 2	EV0 - 3
Outlets	(12) C13	(24) C13	(24) C13 + (6) C19
Input Voltage (V)	220-240V	220-240V	220-240V
Max Amps (A)	16A	16A	16A or 32A
Typical Power (kW)	3.6kW	3.6kW	3.6kW or 7.3kW
Output Voltage (V)	220-240V	220-240V	220-240V
Circuit Protection	-	-	Circuit Breakers
Height	10U I 432mm	18U I 800mm	35U I 1520mm
Special features	-	-	Power Pivot



SMART PDU

Horizontal Rack Mounted Enclosures

Model	EV0 - 4	EV0 - 5	EV0 - 6
Outlets	Up to (10) C13 or (2) C19	(12) C19	Up to (26) C13 or (6) C19
Input Voltage (V)	220-240V	220-240V	220-240V
Max Amps (A)	16A or 32A	16A or 32A	16A or 32A
Typical Power (kW)	3.6kW or 7.3kW	7.3kW or 14.7kW	3.6kW or 7.3kW
Output Voltage (V)	220-240V	220-240V	220-240V
Circuit Protection	-	-	Circuit Breakers
Height & Depth	1U I 178mm Depth	2U I 254mm Depth	2U I 178mm Depth
Special features	PIPS, HDOT	PIPS	PIPS, HDOT

SMART PDU

Smart Power Monitor

Model	EV0 - 7	EV0 - 8	EV0 - 9
Outlets	C19	IEC 60309	IEC 60309
Input Voltage (V)	220-240V	220-240V	3-Phase 230/400V
Max Amps (A)	16A	32A	16A or 32A
Typical Power (kW)	7.3kW	14.7kW	22kW or 44kW
Output Voltage (V)	220-240V	220-240V	3-Phase 230/400V
Circuit Protection	-	-	-
Height & Depth	1U I 178mm Depth	1U I 178mm Depth	1U I 178mm Depth

SMART PDU

Zero-U vertical enclosures

Model	EV0 - 10	EV0 - 11
Outlets	(12) C13 + (12) C19	(18) C13 + (6) C19
Input Voltage (V)	3-Phase 230/400V	3-Phase 230/400V
Max Amps (A)	16A or 32A	16A or 32A
Typical Power (kW)	11kW or 22kW	11kW or 22kW
Output Voltage (V)	230V	230V
Circuit Protection	Circuit Breakers	Fuses
Height	40U I 1753mm	40U I 1753mm
Special features	PIPS	-

Model	EV0 - 12	EV0 - 13
Outlets	(24) C13	(24) C13 + (6) C19
Input Voltage (V)	3-Phase 208-240V	3-Phase 230/400V
Max Amps (A)	20A or 30A	16A or 32A
Typical Power (kW)	7.2kW or 10.8kW	11kW or 22kW
Output Voltage (V)	208-240V	230V
Circuit Protection	Fuses	Circuit Breakers
Height	40U I 69" I 1753mm	41U I 1781mm
Special features	Power Pivot, PIPS	Power Pivot, PIPS

Model	EV0 - 14	EV0 - 15	EV0 - 16
Outlets	Up to (42) C13 or (15) C19	(36) C13 + (6) C19	Up to (42) C13 or (15) C19
Input Voltage (V)	220-240V	220-240V	3-Phase 230/400V
Max Amps (A)	16A or 32A	32A	16A or 32A
Typical Power (kW)	3.6kW or 7.3kW	7.3kW	11kW or 22kW
Output Voltage (V)	220-240V	220-240V	230V
Circuit Protection	Circuit Breakers	Circuit Breakers	Circuit Breakers
Height	40U I 1753mm	40U I 1753mm	41U I 1781mm
Special features	Power Pivot, PIPS, HDOT	Power Pivot, PIPS	Power Pivot, PIPS, HDOT

Model	EV0 - 17	EV0 - 18
Outlets	Up to (42) C13 or (12) C19	(36) C13 + (6) C19
Input Voltage (V)	3-Phase 230/400V	3-Phase 230/400V
Max Amps (A)	16A or 32A	32A
Typical Power (kW)	11kW or 22kW	22kW
Output Voltage (V)	230V	230V
Circuit Protection	Circuit Breakers	Circuit Breakers
Height	41U I 1778mm	40U I 1753mm
Special features	PIPS, HDOT	PIPS

METERED PDU

Horizontal Rack Mounted Enclosures

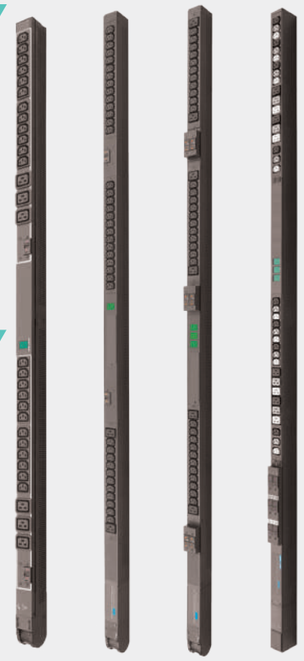
Model	EVO - 19	EVO - 20	EVO - 21
Outlets	(4) C19	(12) IEC C13	(12) C19
Input Voltage (V)	220-240V	220-240V	220-240V
Max Amps (A)	16A or 32A	16A or 32A	16A or 32A
Typical Power (kW)	3.6kW or 7.3kW	3.6kW or 7.3kW	7.3kW or 14.7kW
Output Voltage (V)	220-240V	220-240V	220-240V
Circuit Protection	Fuses	Fuses	Circuit Breakers
Height & Depth	1U I 178mm Depth	1U I 178mm Depth	2U I 254mm Depth

METERED PDU

Zero-U Vertical Enclosures

Model	EVO - 22	EVO - 23	EVO - 24
Outlets	(12) C13	(24) C13 + (6) C19	Up to (42) C13 or (15) C19
Input Voltage (V)	220-240V	220-240V	220-240V
Max Amps (A)	16A or 32A	16A or 32A	16A or 32A
Typical Power (kW)	3.6kW or 7.3kW	3.6kW or 7.3kW	3.6kW or 7.3kW
Output Voltage (V)	220-240V	220-240V	220-240V
Circuit Protection	Fuses	Circuit Breakers	Circuit Breakers
Height	18U I 794mm	35U I 1520mm	40U I 1753mm
Special features	-	Power Pivot	Power Pivot, HDOT

Model	EVO - 25	EVO - 26
Outlets	Up to (42) C13 or (15) C19	Up to (42) C13 or (12) C19
Input Voltage (V)	3-Phase 230/400V	3-Phase 230/400V
Max Amps (A)	16A or 32A	16A or 32A
Typical Power (kW)	11kW or 22kW	11kW or 22kW
Output Voltage (V)	230V	230V
Circuit Protection	Circuit Breakers	Circuit Breakers
Height	41U I 1781mm	41U I 1778mm
Special features	Power Pivot, HDOT	HDOT



SWITCHED PDU

Zero-U vertical enclosures

Model	EVO - 27	EVO - 28	EVO - 29	EVO - 30
Outlets	(16) C13	(18) C13 + (6) C19	(18) C13 + (6) C19	(24) C13
Input Voltage (V)	220-240V	220-240V	220-240V	220-240V
Max Amps (A)	16A or 32A	16A or 32A	16A or 32A	16A or 32A
Typical Power (kW)	3.6kW or 7.3kW	3.6kW or 7.3kW	3.6kW or 7.3kW	3.6kW or 7.3kW
Output Voltage (V)	220-240V	220-240V	220-240V	220-240V
Circuit Protection	Fuses	Fuses	Circuit Breakers	Circuit Breakers
Height	29U I 1257mm	40U I 1753mm	40U I 1753mm	40U I 1753mm
Special features	PIPS	-	Power Pivot, PIPS	Power Pivot, PIPS

Model	EVO - 31	EVO - 32	EVO - 33
Outlets	(24) C13	(24) C13 + (6) C19	(24) C13 + (6) C19
Input Voltage (V)	3-Phase 230/400V	220-240V	3-Phase 230/400V
Max Amps (A)	16A or 32A	16A or 32A	16A or 32A
Typical Power (kW)	11kW or 22kW	3.6kW or 7.3kW	11kW or 22kW
Output Voltage (V)	230V	220-240V	230V
Circuit Protection	Circuit Breakers	Circuit Breakers	Circuit Breakers
Height	40U I 1753mm	40U I 1753mm	41U I 1778mm
Special features	PIPS	Power Pivot, PIPS	Power Pivot, PIPS

Model	EVO - 34
Outlets	Up to (42) C13 or (12) C19
Input Voltage (V)	3-Phase 230/400V
Max Amps (A)	16A or 32A
Typical Power (kW)	11kW or 22kW
Output Voltage (V)	230V
Circuit Protection	Circuit Breakers
Height	41U I 1778mm
Special features	PIPS, HDOT

Model	EVO - 35	EVO - 36	EVO - 37
Outlets	(48) C13	(36) C13 + (12) C19	(48) C13
Input Voltage (V)	220-240V	3-Phase 230/400V	3-Phase 230/400V
Max Amps (A)	16A or 32A	16A or 32A	16A or 32A
Typical Power (kW)	3.6kW or 7.3kW	11kW or 22kW	11kW or 22kW
Output Voltage (V)	220-240V	230V	230V
Circuit Protection	Circuit Breakers	Circuit Breakers	Circuit Breakers
Height	40U I 1753mm	40U I 1753mm	40U I 1753mm
Special features	PIPS	PIPS	PIPS

SWITCHED PDU

Horizontal Rack Mounted Enclosures

Model	EVO - 38	EVO - 39	EVO - 40	EVO - 41
Outlets	(2) C13	(8) C13	(16) C13	(16) C13
Input Voltage (V)	220-240V	220-240V	220-240V	220-240V
Max Amps (A)	16A	16A or 32A	16A or 32A	16A or 32A
Typical Power (kW)	3.6kW	3.6kW or 7.3kW	3.6kW or 7.3kW	7.3kW or 14.7kW
Output Voltage (V)	220-240V	220-240V	220-240V	220-240V
Circuit Protection	-	Circuit Breakers	Circuit Breakers	Circuit Breakers
Height & Depth	1U I 140mm Depth	1U I 178mm Depth	2U I 178mm Depth	2U I 254mm Depth
Special features	Not Linkable			

FAIL-SAFE TRANSFER SWITCH (FSTS)

Horizontal Rack Mounted Enclosures

Model	EVO - 42	EVO - 43	EVO - 44
Outlets	(8) C13	(8) C19	(16) C13
Input Voltage (V)	100-120V or 220-240V	220-240V	220-240V
Max Amps (A)	16A	16A or 32A	16A or 32A
Typical Power (kW)	1.9kW or 3.6kW	3.6kW or 7.3kW	3.6kW or 7.3kW
Output Voltage (V)	100-120V or 220-240V	220-240V	220-240V
Circuit Protection	Internal Fuses	Internal Fuses	Internal Fuses
Height & Depth	1U I 203mm Depth	2U I 254mm Depth	2U I 254mm Depth
Special features	-	-	

Model	EVO - 45	EVO - 46	EVO - 47
Outlets	(16) C13	C19	C19
Input Voltage (V)	220-240V	220-240V	220-240V
Max Amps (A)	16A or 32A	16A	32A
Typical Power (kW)	3.6kW or 7.3kW	3.6kW	7.3kW
Output Voltage (V)	220-240V	220-240V	220-240V
Circuit Protection	Circuit Breakers	-	-
Height & Depth	2U I 254mm Depth	1U I 178mm Depth	1U I 178mm Depth
Special features			

POPS® SWITCHED PDU

Zero-U Vertical Enclosures

Model	EVO - 48	EVO - 49	EVO - 50	EVO - 51
Outlets	(12) C13 + (4) C19	(18) C13 + (6) C19	(18) C13 + (6) C19	(36) C13 + (12) C19
Input Voltage (V)	220-240V	220-240V	3-Phase 230/400V	3-Phase 230/400V
Max Amps (A)	16A or 32A	16A or 32A	16A or 32A	16A or 32A
Typical Power (kW)	3.6kW or 7.3kW	3.6kW or 7.3kW	112kW or 22kW	11kW or 22kW
Output Voltage (V)	220-240V	220-240V	230V	230V
Circuit Protection	Fuses	Circuit Breakers	Circuit Breakers	Circuit Breakers
Height	29U I 1256mm	40U I 1753mm	40U I 1753mm	40U I 1753mm
Special features				

Model	EVO - 52	EVO - 53
Outlets	(24) C13 + (6) C19	(24) C13 + (6) C19
Input Voltage (V)	220-240V	3-Phase 230/400V
Max Amps (A)	16A or 32A	16A or 32A
Typical Power (kW)	3.6kW or 7.3kW	11kW or 22kW
Output Voltage (V)	220-240V	230V
Circuit Protection	Circuit Breakers	Circuit Breakers
Height	40U I 1753mm	41U I 1778mm
Special features		

POPS® SWITCHED PDU

Horizontal Rack Mounted Enclosures

Model	EVO - 54	EVO - 55
Outlets	(8) C13	(16) C13
Input Voltage (V)	220-240V	220-240V
Max Amps (A)	16A or 32A	16A or 32A
Typical Power (kW)	3.6kW or 7.3kW	3.6kW or 7.3kW
Output Voltage (V)	220-240V	220-240V
Circuit Protection	Circuit Breakers	Circuit Breakers
Height	2U I 178mm Depth	2U I 178mm Depth
Special features		

POPS® SMART PDU

Zero-U Vertical Enclosures

Model	EVO - 56	EVO - 57	EVO - 58
Outlets	(18) C13 + (6) C19	(12) C13 + (12) C19	(36) C13 + (12) C19
Input Voltage (V)	220-240V	3-Phase 230/400V	3-Phase 230/400V
Max Amps (A)	16A or 32A	16A or 32A	16A or 32A
Typical Power (kW)	3.6kW or 7.3kW	11kW or 22kW	11kW or 22kW
Output Voltage (V)	220-240V	230V	230V
Circuit Protection	Circuit Breakers	Circuit Breakers	Circuit Breakers
Height & Depth	35U I 1550mm	41U I 1794mm	40U I 1753mm
Special features			

ACCESSORY OPTIONS

Model	ENVIRONMENTAL MONITOR CONTROL		BRACKET
			
Type	Temperture & Humidity probes (EMTH)	Environmental Monitoring Control Unit	C20 Inlet Retention Bracket
Function	Measures cabinet temperature & humidity	Supports 2 additional EMTH-1-1, water & 4 dry contact closure door sensors	Securely fastens C19 cord to chassis
Lenght	3m	-	-

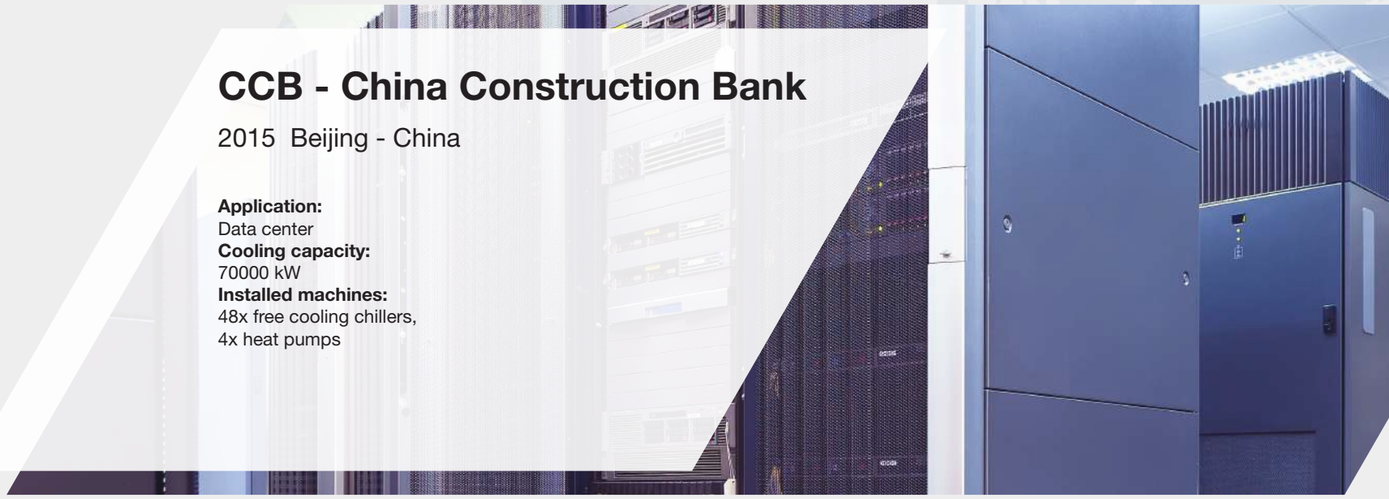
“EXPERIENCE IS BY FAR THE BEST PROOF”

Sir Francis Bacon
British Philosopher (1561-1626)

CCB - China Construction Bank

2015 Beijing - China

Application:
Data center
Cooling capacity:
70000 kW
Installed machines:
48x free cooling chillers,
4x heat pumps



Fastweb Tier4
Milan - Italy
2014

Application:
Data center
Cooling capacity:
2800 kW

Installed machines:
4x TECS2/SL-CA-E 0652,
2x RCPRO

Vodafone Buccinasco
Buccinasco - Italy
2015

Application:
Data Center
Cooling capacity:
4635 kW

Installed machines:
4x TECS2/SL-CA-E 0512,
1x FX-FC-NG/SL-T+2602
2x RCPRO,
29x AC close control units

BNP Paribas
Bailly Romainvilliers - France
2015

Application:
Data center
Cooling capacity:
12208 kW

Installed machines:
2x FX-FC NG 3902 SL-T,
10x FOCS2 3602 SL-K-S,
8x ACU 25 EC,
4x ACU 30 EC,
8x ACU 70 EC,
8x ACU 171 EC

Minera Spence
Sierra Gorda - Chile
2013

Application:
Telecommunications
Cooling capacity:
3094 kW

Installed machines:
130x HED+HCAT 0041,
42x HED+HCAT 0056,
78x HED+HCAT 0061

PDU_ENG_12-2017

RC IT COOLING

eco Changes for a greener tomorrow

Eco Changes is the Mitsubishi Electric Group's environmental statement, and expresses the Group's stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.

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