Server Technology

A brand of **legrand**

STV-4540D (Primary)

SEV-4540D (Link)

The Server Technology® PRO1 Switched PDU provides control of outlet power and local LED input current monitoring, allowing IT personnel to determine safe levels of loading on a per-phase basis while installing equipment into the rack/cabinet. The integral PIPS® technology provides billing-grade accurate measurement of current, voltage, active power, apparent power, power factor, crest factor, and accumulated energy at the input. These power data points, along with temperature and humidity measurements (provided via optional probes), are accessible through the built-in Web and CLI interfaces as well as through SNMP. The PRO1 Switched "Primary" PDU can be connected to as many as three (with optional module) PRO1 Switched "Link" PDUs to extend the network access to the redundant or secondary power feed without the risks of a daisy chain linking configuration.

Key Features

Network Monitoring
Gain access to valuable data through connections including HTTP(S), SSH, Telnet, SNMP, (S)FTP, SMTP, Syslog, LDAP(S), RS-232 serial, and more.

Star Multi-Linking
Provides the ability to link up to four power circuits using one IP address. Primary link provides backup power to network card.

Auto-Flip Current Display
Easy-to-read LEDs display current per phase to help prevent overloads and simplify three-phase load balancing in high-density cabinets.

Branch Circuit Protection
This PDU meets the UL and IEC 60950-1 requirement for branch circuit protection through use of UL489 rated magnetic-hydraulic circuit breakers or UL248 fuses.

High Retention Locking Outlets
Receptacles have high retention and are compatible with P-Lock type power cords.

Power Pivot™
The 90 degree rotatable power cord allows for standardized deployment at any facility no matter where power must be routed.
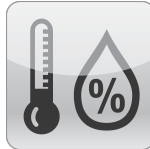
Color Identification
Choose from six colors to designate circuits for rack PDUs in the data center. Color options include Blue, Red, Green, White, Yellow, and Black.

Hot-Swap Network Card
Network access is ensured when power is lost to the primary unit with backup power provided by the primary link unit.
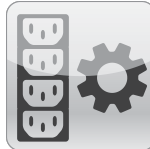
Temperature/Humidity Monitoring
Primary and Link units each support two external 10' (3 m) T/H probes. Receive SNMP-based alerts and email notifications.
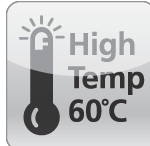
Per-Inlet Power Sensing
Meets ANSI C12.1 for billing-grade accuracy of Current per phase. PIPS includes voltage, active power, apparent power, power factor, and energy.

Outlet Control
On Switched rack PDUs, cycle power to individual outlets or groups of outlets to reboot servers. Or, power off unused receptacles.

High Temperature Rating
This product has been tested and approved for safe and reliable operation in 60 °C data center environments.

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

Inputs

Input Voltage (V):	230
Frequency	50/60 Hz
Input Plug:	IEC C20 230V Inlet
Input Current (A):	16
Input Current Rated (A):	16
Input Power Capacity (kW):	3.6

Outputs

Connector	Rating
(24) x IEC 60320/C13	Global Rating: ≤ 10A @230V L-N

Branch Circuit Protection

UL 489, CSA C22.2 No. 5 & IEC/EN 60947-2 Compliant 2-pole, 20A trip circuit breakers, two (2) branch, rating: ≤ 16A, 5 kAIC Interrupt Rating

Physical

Dimensions: 69.0in tall x 1.75in wide x 2.25in deep [1753mm x 45mm x 58mm]

Environmental

Operating Environment: 32°F to 140°F / 0°C to 60°C | 8%RH to 90%RH non-condensing | 6,500ft/2km elevation
Storage Environment: -40°F to 185°F / -40°C to 85°C | 8%RH to 90%RH non-condensing | 50,000ft/15km elevation
Quiescent / Unloaded Power Draw: < 10W for all configurations

Communications & Security

10/100 Mbps Ethernet (RJ-45 connector), RS-232 serial (RJ-45 connector)
Two (2) temperature/humidity sensor inputs (4P4C), Link port (RJ-12) - {also on Link PDU}
Web-browser GUI and command-line interface (CLI): HTTP/HTTPS, TLSv1.2, SSHv2, Telnet, SNMPv2c and v3 (GET, SET, Traps), IPv4 and IPv6, LDAPv3/LDAPS, TACACS+, RADIUS, FTP/SFTP

Certifications

Global:
TUV T-Mark to EN 60950-1:2006+A11+A1+A12+A2
EMC to EN55024 (2010) and EN55032 (2012)
CE Compliant
RoHS, European Hazardous Materials Directive (Recast) 2011/65/EU
WEEE Compliant

Measurement Accuracy

Input Measurement Accuracy:
LED Current = ± 10% at 0.1 amp (0.3 - 9.9 amps) and 1 amp (> 9.9 amps) resolution
GUI Current = ± 1% at 0.01 amp resolution (above 0.25 amp)
Voltage = ± 1% at 0.1 volt resolution (nominal ± 10%)
Active Power = ± 1% at 1 watt resolution
Apparent Power = ± 1% at 1 volt-amp resolution

Power Factor = ± 3% at 0.01 resolution

Crest Factor = ± 10% at 0.1 resolution

Energy = ± 1% at 0.1 kilowatt-hour resolution

Optional Accessories

EMTH-2-10 Combination Temperature/Humidity Probe, 10ft (3m)

EMCU-1-1C Environmental Monitor adding:

- Two (2) EMTH-2-10 temperature/humidity ports (one probe included)

- One (1) EMWS-1-1 water sensor port (probe sold separately)

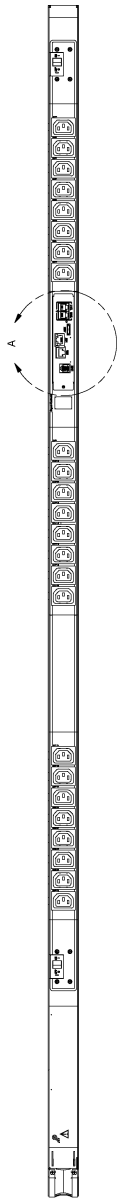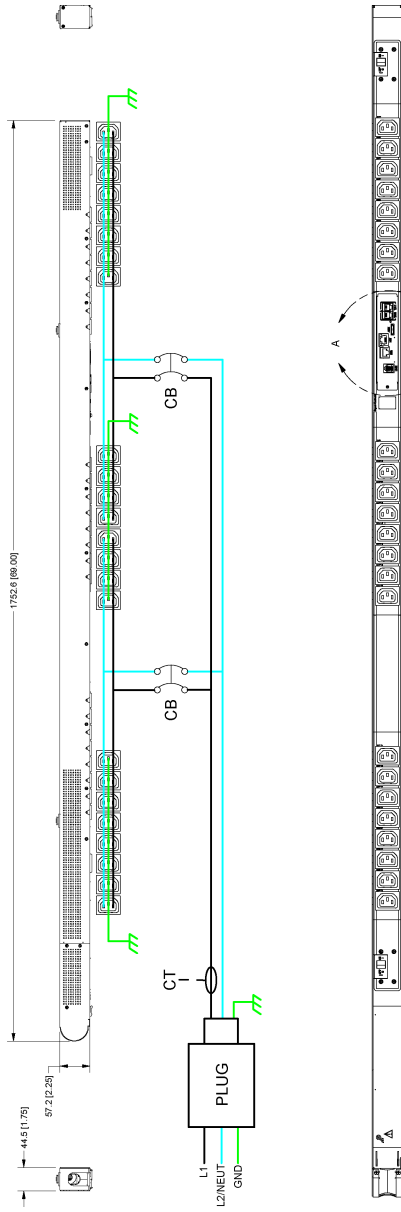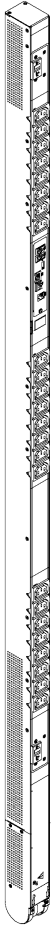- Four (4) dry contact (NO/NC) monitoring points
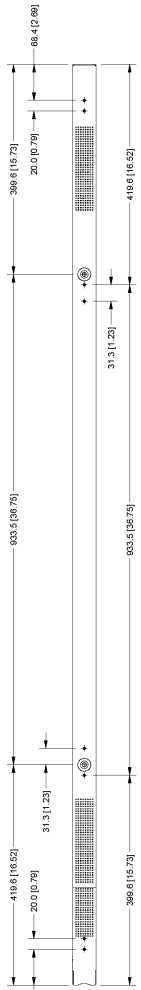
- One (1) 8-bit analog-to-digital converter (0 to 5VDC)

KIT-SUS-01 StartUp Stick™ for rapid configurationMounting Brackets

- Buttons (KIT-0020) included for tool-less mounting (see diagram)

- See the Mounting Bracket Guide for further suggestions

- Custom mounting options available. Contact your local Server Technology representative

Cable Retention Devices for non-locking cords

- EZip

- Cable Sleeve

Drawings

68.4 [2.69]
389.6 [15.73]
20.0 [0.79]
419.6 [16.52]
31.3 [1.23]
933.5 [36.75]
933.5 [36.75]
419.6 [16.52]
20.0 [0.79]
31.3 [1.23]
389.6 [15.73]
68.4 [2.69]

1752.6 [69.00]

44.5 [1.75]
57.2 [2.25]

CT

CB

CB

PLUG

L1
L2/NEUT
GND

A

DETAIL A
'CX' EXPANSION VIEW

Additional Information

Warranty: Server Technology offers a standard 2-year limited parts & labor warranty. Extended support is available at the time of purchase. See the Support Options on the website, or contact your local Server Technology representative for more information.

Patents: Information on Server Technology patents is available on the website at: www.servertech.com/products/patents

"Global" models are typically for use in countries outside of North America. Contact your Server Technology representative for more information about which models are appropriate for your application.

Information in this document is current as of time of publishing. Contact your Server Technology representative for the most up-to-date information. This datasheet was generated on: 18-Dec-2020

Interested in learning more about how Server Technology can help you manage and distribute power in your datacenter?
Visit us online at: www.servertech.com/products/

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