

## STV-4525J (Primary)

### SEV-4525J (Link)

The Server Technology® PRO2 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 PRO2 Switched “Primary” PDU can be connected to as many as three (with optional module) PRO2 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.



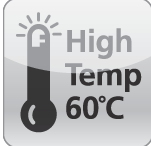
### Branch Current Monitoring

Monitors current at each breaker branch and provides SNMP-based alerts and emails on high usage that risks a tripped circuit.



### 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.



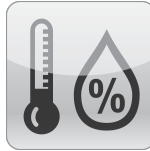
### Color Identification

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' (3m) 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.



### 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.



### Flexible Mounting

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

## Inputs

Input Voltage (V):	400
Frequency	50/60 Hz
Input Plug:	230/400V Wye 16A IEC 60309 3P+N+PE 6Hr
Input Current (A):	16
Input Current Rated (A):	16
Input Power Capacity (kW):	11.0

## Outputs

Connector	Rating
(36) x IEC 60320/C13	Global Rating: ≤ 10A @230V L-N
(12) x IEC 60320/C19	Global Rating: ≤ 16A @230V L-N

## Branch Circuit Protection

UL 489, CSA C22.2 No. 5 & IEC/EN 60947-2 Compliant 1-pole, 20A trip circuit breakers, six (6) branch, rating: ≤ 16A, 10 kAIC Interrupt Rating

## Physical

Dimensions: 69.0in tall x 3.25in wide x 2.25in deep [1753mm x 83mm 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

10/100/1000 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:

### Safety

- EN 62368-1 (TUV certified, T-mark)
- IEC 60950-1 incl. regional, national and harmonized differences (IECEE CB scheme)
- IEC 62368-1 incl. regional, national and harmonized differences (IECEE CB scheme)

### EMC

- EN 55032 / IEC 55032 / CISPR 32
- EN 55024 / CISPR 24
- EN 55035 / IEC 55035 / CISPR 35
- EN 61000-3-2 / IEC 61000-3-2
- EN 61000-3-3 / IEC 61000-3-3

- RoHS, European Hazardous Materials Directive, 2011/65/EU
- WEEE Compliant
- CE Mark
- UK Legislation
- RoHS, Electrical Equipment (Safety) and Electromagnetic Compatibility

# Measurement Accuracy

## Input Measurement Accuracy:

- LED Current =  $\pm 10\%$  at 0.1 amp (0.3 - 9.9 amps) and 1 amp (> 9.9 amps) resolution
- GUI Current =  $\pm 1\%$  at 0.01 amp resolution (above 0.25 amp)
- Voltage =  $\pm 1\%$  at 0.1 volt resolution (nominal  $\pm 10\%$ )
- Active Power =  $\pm 1\%$  at 1 watt resolution
- Apparent Power =  $\pm 1\%$  at 1 volt-amp resolution
- Power Factor =  $\pm 3\%$  at 0.01 resolution
- Crest Factor =  $\pm 10\%$  at 0.1 resolution
- Energy =  $\pm 1\%$  at 0.1 kilowatt-hour resolution

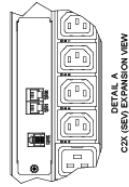
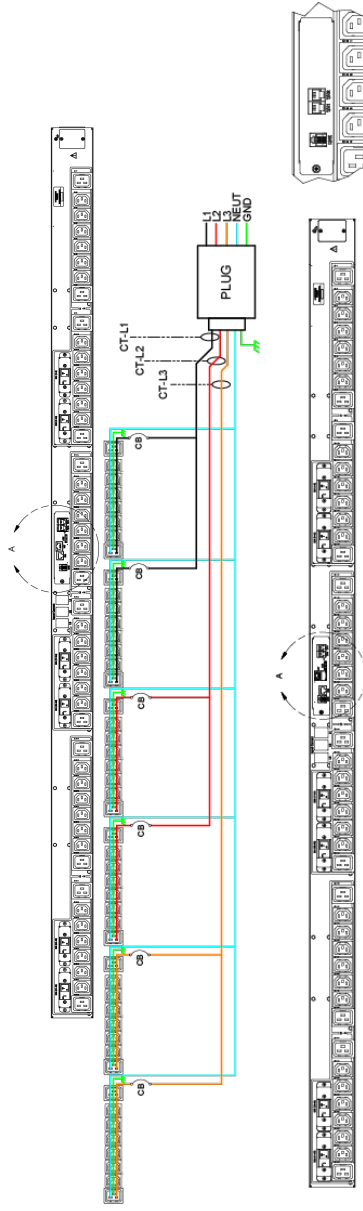
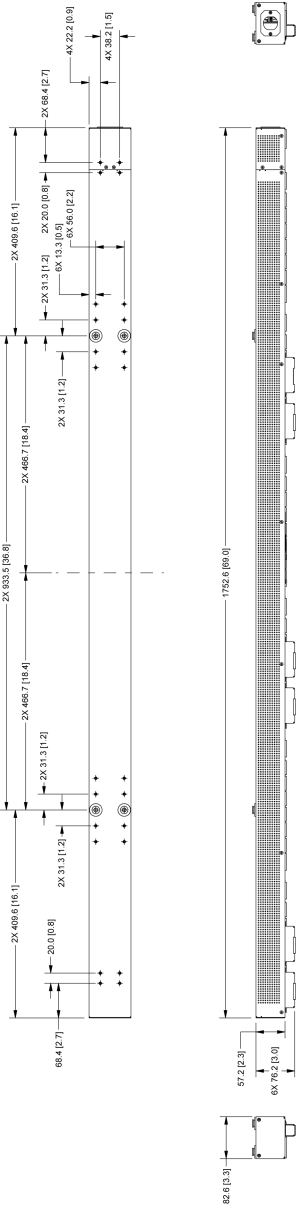
## Branch Measurement Accuracy

- Current =  $\pm 3\%$  at 0.01 amp resolution (above 0.5 amp)

# 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-PRO2LINK-01M or -01D provides ability to link (2) additional PRO2 units
- KIT-SUS-01 StartUp Stick™ for rapid configuration
- Mounting 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



Part Number	Quantity	Part	Part #	Part Name	Part #	Part Name
C2WBWVA-8PDCMA1.0V4.5S30	1	WAVEFORM CONDITIONER	23100001	3.0V	23100001	3.0V
C2WBWVA-8PDCMA1.0V4.5S36	1	WAVEFORM CONDITIONER	23100002	3.6V	23100002	3.6V
C2WBWVA-8PDCMA1.0V4.5S39	1	WAVEFORM CONDITIONER	23100003	3.9V	23100003	3.9V
C2WBWVA-8PDCMA1.0V4.5S42	1	WAVEFORM CONDITIONER	23100004	4.2V	23100004	4.2V
C2WBWVA-8PDCMA1.0V4.5S45	1	WAVEFORM CONDITIONER	23100005	4.5V	23100005	4.5V
C2WBWVA-8PDCMA1.0V4.5S48	1	WAVEFORM CONDITIONER	23100006	4.8V	23100006	4.8V
C2WBWVA-8PDCMA1.0V4.5S51	1	WAVEFORM CONDITIONER	23100007	5.1V	23100007	5.1V
C2WBWVA-8PDCMA1.0V4.5S54	1	WAVEFORM CONDITIONER	23100008	5.4V	23100008	5.4V
C2WBWVA-8PDCMA1.0V4.5S57	1	WAVEFORM CONDITIONER	23100009	5.7V	23100009	5.7V
C2WBWVA-8PDCMA1.0V4.5S60	1	WAVEFORM CONDITIONER	23100010	6.0V	23100010	6.0V
C2WBWVA-8PDCMA1.0V4.5S63	1	WAVEFORM CONDITIONER	23100011	6.3V	23100011	6.3V
C2WBWVA-8PDCMA1.0V4.5S66	1	WAVEFORM CONDITIONER	23100012	6.6V	23100012	6.6V
C2WBWVA-8PDCMA1.0V4.5S69	1	WAVEFORM CONDITIONER	23100013	6.9V	23100013	6.9V
C2WBWVA-8PDCMA1.0V4.5S72	1	WAVEFORM CONDITIONER	23100014	7.2V	23100014	7.2V
C2WBWVA-8PDCMA1.0V4.5S75	1	WAVEFORM CONDITIONER	23100015	7.5V	23100015	7.5V
C2WBWVA-8PDCMA1.0V4.5S78	1	WAVEFORM CONDITIONER	23100016	7.8V	23100016	7.8V
C2WBWVA-8PDCMA1.0V4.5S81	1	WAVEFORM CONDITIONER	23100017	8.1V	23100017	8.1V
C2WBWVA-8PDCMA1.0V4.5S84	1	WAVEFORM CONDITIONER	23100018	8.4V	23100018	8.4V
C2WBWVA-8PDCMA1.0V4.5S87	1	WAVEFORM CONDITIONER	23100019	8.7V	23100019	8.7V
C2WBWVA-8PDCMA1.0V4.5S90	1	WAVEFORM CONDITIONER	23100020	9.0V	23100020	9.0V
C2WBWVA-8PDCMA1.0V4.5S93	1	WAVEFORM CONDITIONER	23100021	9.3V	23100021	9.3V
C2WBWVA-8PDCMA1.0V4.5S96	1	WAVEFORM CONDITIONER	23100022	9.6V	23100022	9.6V
C2WBWVA-8PDCMA1.0V4.5S99	1	WAVEFORM CONDITIONER	23100023	9.9V	23100023	9.9V
C2WBWVA-8PDCMA1.0V4.5S102	1	WAVEFORM CONDITIONER	23100024	10.2V	23100024	10.2V
C2WBWVA-8PDCMA1.0V4.5S105	1	WAVEFORM CONDITIONER	23100025	10.5V	23100025	10.5V
C2WBWVA-8PDCMA1.0V4.5S108	1	WAVEFORM CONDITIONER	23100026	10.8V	23100026	10.8V
C2WBWVA-8PDCMA1.0V4.5S111	1	WAVEFORM CONDITIONER	23100027	11.1V	23100027	11.1V
C2WBWVA-8PDCMA1.0V4.5S114	1	WAVEFORM CONDITIONER	23100028	11.4V	23100028	11.4V
C2WBWVA-8PDCMA1.0V4.5S117	1	WAVEFORM CONDITIONER	23100029	11.7V	23100029	11.7V
C2WBWVA-8PDCMA1.0V4.5S120	1	WAVEFORM CONDITIONER	23100030	12.0V	23100030	12.0V
C2WBWVA-8PDCMA1.0V4.5S123	1	WAVEFORM CONDITIONER	23100031	12.3V	23100031	12.3V
C2WBWVA-8PDCMA1.0V4.5S126	1	WAVEFORM CONDITIONER	23100032	12.6V	23100032	12.6V
C2WBWVA-8PDCMA1.0V4.5S129	1	WAVEFORM CONDITIONER	23100033	12.9V	23100033	12.9V
C2WBWVA-8PDCMA1.0V4.5S132	1	WAVEFORM CONDITIONER	23100034	13.2V	23100034	13.2V
C2WBWVA-8PDCMA1.0V4.5S135	1	WAVEFORM CONDITIONER	23100035	13.5V	23100035	13.5V
C2WBWVA-8PDCMA1.0V4.5S138	1	WAVEFORM CONDITIONER	23100036	13.8V	23100036	13.8V
C2WBWVA-8PDCMA1.0V4.5S141	1	WAVEFORM CONDITIONER	23100037	14.1V	23100037	14.1V
C2WBWVA-8PDCMA1.0V4.5S144	1	WAVEFORM CONDITIONER	23100038	14.4V	23100038	14.4V
C2WBWVA-8PDCMA1.0V4.5S147	1	WAVEFORM CONDITIONER	23100039	14.7V	23100039	14.7V
C2WBWVA-8PDCMA1.0V4.5S150	1	WAVEFORM CONDITIONER	23100040	15.0V	23100040	15.0V
C2WBWVA-8PDCMA1.0V4.5S153	1	WAVEFORM CONDITIONER	23100041	15.3V	23100041	15.3V
C2WBWVA-8PDCMA1.0V4.5S156	1	WAVEFORM CONDITIONER	23100042	15.6V	23100042	15.6V
C2WBWVA-8PDCMA1.0V4.5S159	1	WAVEFORM CONDITIONER	23100043	15.9V	23100043	15.9V
C2WBWVA-8PDCMA1.0V4.5S162	1	WAVEFORM CONDITIONER	23100044	16.2V	23100044	16.2V
C2WBWVA-8PDCMA1.0V4.5S165	1	WAVEFORM CONDITIONER	23100045	16.5V	23100045	16.5V
C2WBWVA-8PDCMA1.0V4.5S168	1	WAVEFORM CONDITIONER	23100046	16.8V	23100046	16.8V
C2WBWVA-8PDCMA1.0V4.5S171	1	WAVEFORM CONDITIONER	23100047	17.1V	23100047	17.1V
C2WBWVA-8PDCMA1.0V4.5S174	1	WAVEFORM CONDITIONER	23100048	17.4V	23100048	17.4V
C2WBWVA-8PDCMA1.0V4.5S177	1	WAVEFORM CONDITIONER	23100049	17.7V	23100049	17.7V
C2WBWVA-8PDCMA1.0V4.5S180	1	WAVEFORM CONDITIONER	23100050	18.0V	23100050	18.0V
C2WBWVA-8PDCMA1.0V4.5S183	1	WAVEFORM CONDITIONER	23100051	18.3V	23100051	18.3V
C2WBWVA-8PDCMA1.0V4.5S186	1	WAVEFORM CONDITIONER	23100052	18.6V	23100052	18.6V
C2WBWVA-8PDCMA1.0V4.5S189	1	WAVEFORM CONDITIONER	23100053	18.9V	23100053	18.9V
C2WBWVA-8PDCMA1.0V4.5S192	1	WAVEFORM CONDITIONER	23100054	19.2V	23100054	19.2V
C2WBWVA-8PDCMA1.0V4.5S195	1	WAVEFORM CONDITIONER	23100055	19.5V	23100055	19.5V
C2WBWVA-8PDCMA1.0V4.5S198	1	WAVEFORM CONDITIONER	23100056	19.8V	23100056	19.8V
C2WBWVA-8PDCMA1.0V4.5S201	1	WAVEFORM CONDITIONER	23100057	20.1V	23100057	20.1V
C2WBWVA-8PDCMA1.0V4.5S204	1	WAVEFORM CONDITIONER	23100058	20.4V	23100058	20.4V
C2WBWVA-8PDCMA1.0V4.5S207	1	WAVEFORM CONDITIONER	23100059	20.7V	23100059	20.7V
C2WBWVA-8PDCMA1.0V4.5S210	1	WAVEFORM CONDITIONER	23100060	21.0V	23100060	21.0V
C2WBWVA-8PDCMA1.0V4.5S213	1	WAVEFORM CONDITIONER	23100061	21.3V	23100061	21.3V
C2WBWVA-8PDCMA1.0V4.5S216	1	WAVEFORM CONDITIONER	23100062	21.6V	23100062	21.6V
C2WBWVA-8PDCMA1.0V4.5S219	1	WAVEFORM CONDITIONER	23100063	21.9V	23100063	21.9V
C2WBWVA-8PDCMA1.0V4.5S222	1	WAVEFORM CONDITIONER	23100064	22.2V	23100064	22.2V
C2WBWVA-8PDCMA1.0V4.5S225	1	WAVEFORM CONDITIONER	23100065	22.5V	23100065	22.5V
C2WBWVA-8PDCMA1.0V4.5S228	1	WAVEFORM CONDITIONER	23100066	22.8V	23100066	22.8V
C2WBWVA-8PDCMA1.0V4.5S231	1	WAVEFORM CONDITIONER	23100067	23.1V	23100067	23.1V
C2WBWVA-8PDCMA1.0V4.5S234	1	WAVEFORM CONDITIONER	23100068	23.4V	23100068	23.4V
C2WBWVA-8PDCMA1.0V4.5S237	1	WAVEFORM CONDITIONER	23100069	23.7V	23100069	23.7V
C2WBWVA-8PDCMA1.0V4.5S240	1	WAVEFORM CONDITIONER	23100070	24.0V	23100070	24.0V
C2WBWVA-8PDCMA1.0V4.5S243	1	WAVEFORM CONDITIONER	23100071	24.3V	23100071	24.3V
C2WBWVA-8PDCMA1.0V4.5S246	1	WAVEFORM CONDITIONER	23100072	24.6V	23100072	24.6V
C2WBWVA-8PDCMA1.0V4.5S249	1	WAVEFORM CONDITIONER	23100073	24.9V	23100073	24.9V
C2WBWVA-8PDCMA1.0V4.5S252	1	WAVEFORM CONDITIONER	23100074	25.2V	23100074	25.2V
C2WBWVA-8PDCMA1.0V4.5S255	1	WAVEFORM CONDITIONER	23100075	25.5V	23100075	25.5V
C2WBWVA-8PDCMA1.0V4.5S258	1	WAVEFORM CONDITIONER	23100076	25.8V	23100076	25.8V
C2WBWVA-8PDCMA1.0V4.5S261	1	WAVEFORM CONDITIONER	23100077	26.1V	23100077	26.1V
C2WBWVA-8PDCMA1.0V4.5S264	1	WAVEFORM CONDITIONER	23100078	26.4V	23100078	26.4V
C2WBWVA-8PDCMA1.0V4.5S267	1	WAVEFORM CONDITIONER	23100079	26.7V	23100079	26.7V
C2WBWVA-8PDCMA1.0V4.5S270	1	WAVEFORM CONDITIONER	23100080	27.0V	23100080	27.0V
C2WBWVA-8PDCMA1.0V4.5S273	1	WAVEFORM CONDITIONER	23100081	27.3V	23100081	27.3V
C2WBWVA-8PDCMA1.0V4.5S276	1	WAVEFORM CONDITIONER	23100082	27.6V	23100082	27.6V
C2WBWVA-8PDCMA1.0V4.5S279	1	WAVEFORM CONDITIONER	23100083	27.9V	23100083	27.9V
C2WBWVA-8PDCMA1.0V4.5S282	1	WAVEFORM CONDITIONER	23100084	28.2V	23100084	28.2V
C2WBWVA-8PDCMA1.0V4.5S285	1	WAVEFORM CONDITIONER	23100085	28.5V	23100085	28.5V
C2WBWVA-8PDCMA1.0V4.5S288	1	WAVEFORM CONDITIONER	23100086	28.8V	23100086	28.8V
C2WBWVA-8PDCMA1.0V4.5S291	1	WAVEFORM CONDITIONER	23100087	29.1V	23100087	29.1V
C2WBWVA-8PDCMA1.0V4.5S294	1	WAVEFORM CONDITIONER	23100088	29.4V	23100088	29.4V
C2WBWVA-8PDCMA1.0V4.5S297	1	WAVEFORM CONDITIONER	23100089	29.7V	23100089	29.7V
C2WBWVA-8PDCMA1.0V4.5S300	1	WAVEFORM CONDITIONER	23100090	30.0V	23100090	30.0V

## 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](http://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: 22-Sep-2021

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