The Server Technology® Smart PDU provides 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 accurate measurement of current (billing-grade), 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 Smart "Master" PDU can be connected to a Smart "Link" PDU to extend the network access to the redundant or secondary power feed.

Key Features

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

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.

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.

Alternating-Phase Outlets
3-phase power is wired in an alternating fashion per outlet for simplified load balancing, reduced cord lengths, and better airflow.

High Density Outlet Technology
The highest outlet density available in a network connected PDU. Meets IEC C13 and C19 specifications, plus high native retention and UL94V-0 flame rating.

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

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

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.
**Inputs**

<table>
<thead>
<tr>
<th>Input Voltage (V)</th>
<th>208</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>50/60 Hz</td>
</tr>
<tr>
<td>Input Plug:</td>
<td>208V Delta 60A IEC 60309 3P+G 9Hr</td>
</tr>
<tr>
<td>Input Current (A):</td>
<td>60</td>
</tr>
<tr>
<td>Input Current Rated (A):</td>
<td>48</td>
</tr>
<tr>
<td>Input Power Capacity (kW):</td>
<td>17.3</td>
</tr>
</tbody>
</table>

**Outputs**

<table>
<thead>
<tr>
<th>Connector</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>(24) x IEC 60320/C13</td>
<td>North American Rating: ≤ 12A @208V L-L (15A Peak)</td>
</tr>
<tr>
<td>(12) x IEC 60320/C19</td>
<td>North American Rating: ≤ 16A @208V L-L (20A Peak)</td>
</tr>
</tbody>
</table>

**Branch Circuit Protection**

UL489 Compliant 2-pole, 20A trip circuit breakers, six (6) branch, rating: ≤ 16A, 5 kAIC Interrupt Rating

**Physical**

Dimensions: 70.0in tall x 1.75in wide x 3.0in deep [1778mm x 45mm x 77mm]

**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/FTPS

**Certifications**

North American:
cTUVus Mark to UL 60950-1:2007 R10.14
FCC Part 15 Subpart B Sections 15.107 and 15.109, Class A

**Measurement Accuracy**

**Input Measurement Accuracy:**

LED Current = ± 10% at 0.1 amp (0.5 - 9.9 amps) and 1 amp (> 9.9 amps) resolution
GUI Current = ± 1% at 0.01 amp resolution (above 0.5 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 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
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.servetech.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: 3-Jul-2020

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

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