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. “Smart”

- **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.

- **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.

- **Temperature/Humidity Monitoring**
  
  Master 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.

- **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

<table>
<thead>
<tr>
<th>Input Voltage (V):</th>
<th>400</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Plug:</td>
<td>230/400V Wye 32A IEC 60309 3P+N+PE 6Hr</td>
</tr>
<tr>
<td>Input Current (A):</td>
<td>32</td>
</tr>
<tr>
<td>Input Current Rated (A):</td>
<td>32</td>
</tr>
<tr>
<td>Input Power Capacity (kW):</td>
<td>22.0</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>Global Rating: ≤ 10A @230V L-N</td>
</tr>
<tr>
<td>(6) x IEC 60320/C19</td>
<td>Global Rating: ≤ 16A @230V L-N</td>
</tr>
</tbody>
</table>

## Branch Circuit Protection

UL489 Compliant 1-pole, 20A trip circuit breakers, six (6) branch, rating: ≤ 16A, 10 kAIC Interrupt Rating

## Physical

Dimensions: 70.1in tall x 1.75in wide x 2.25in deep [1781mm 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 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.servertech.com/products/patents

Information in this document is current as of time of publishing. Contact your Server Technology representative for the most up-to-date information.

Advisory: Server Technology, Inc.

HDOT, POPS, CDU, Sentry, Server Technology, and the globe logo are U.S. registered trademarks of Server Technology, Inc. Power Pivot, EZip, StartUp Stick and PRO2 are trademarks of Server Technology, Inc.

This datasheet was generated on: 29-Aug-2019

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/