

SP-1001AIE-02-SP1 SynLink Smart PDU

1U Single Phase Switched Pro+

Real-time inlet-level energy monitoring and outlet-level power metering with 1% accuracy. Remotely switch 8x individual outlets for complete control of your equipment. Each unit comes with a SynLink Smart Control Module that allows you to remotely manage your Power Distribution using industry-standard Network Protocols such as SNMP, Web, HTTP(s), SSH, Telnet, Serial, and more. See the Datasheet for all features supported and make sure to test our live web demo today!

Smart PDU Features

- Network Protocols: SSH, Telnet, HTTP(S), SNMP, SMTP, and more...
- Inlet Energy Monitoring: current (A), voltage (V), line frequency (Hz), active power (W), apparent power (VA), power factor, energy accumulation (kWh).
- Programmable: Custom event triggers and actions, task scheduling, custom alerts, custom event logging.
- Out-of-Band: USB-Serial Port (FTDI chip set), RS232 Serial Port, SynLink Expansion Port.
- Easy Setup: Front Panel LCD interface for rapid deployment.
- Sensors Supported: Temperature & humidity.

Additional Features

- Inlet Energy Measurements with kWh, amperage, voltage measurements, etc..
- Individual Outlet Switching
- Individual Outlet Current Measurements
- Relay Health Monitoring
- UL/CSA 62368-1 : 2019 Third Edition Listed

What's Included

- Detachable NEMA 5-15P to C19 Cord (6ft)
- 1U Mounting Brackets with M4 Screws
- Quick Start Guide Reference Pamphlet

Key Stats

Form Factor: 1U

Max Input Current: 20A (16A)

Power Capacity: 1.9kVA,3.3kVA,3.8 kVA

Inlet Voltage(s): 120V,208V,240V

Outlets: 8

Applications

- Mission critical remote installations.
- IT server racks.
- Datacenters
- Production automation.
- Test automation.
- Engineering labs.
- R&D facilities.



Features



Inlet Energy Monitor

Energy Metrics: Voltage (V), Current (A), Active Power (W), Line Frequency, Active Power, Active Energy, Reactive Energy, Power Factor



Outlet Current Meter

Current (A) is measured at each outlet



Outlet Switching

Each outlet is equipped with a relay to allow for manual or automatic switching. Sequential outlet sequencing built-in to minimize inrush current.



Relay Health Monitor

Proprietary firmware keeps track of key relay health indicators to alert the user of potential failures. Additional relay failure detection circuit allows for alerts when a failure occurs.



Surge Protection

Protect devices, prevent downtime, and improve system reliability due to transients and surges.



Ethernet Port 10/100Mbps

10/100 Base-T Ethernet port. Supports: SSH, Web Server, SNMP, SMTP, NTP, Syslog, HTTP/HTTPS, Telnet, IP4



Hot-Swappable Control Module

PDU's with this feature can hot swap control modules for upgrade or service while maintaining power to the outlets.



Local LCD Display

Color 1.8" TFTLCD or 2x8 Character LCD display Displays PDU metrics, Control and configure settings, Alert notifications



Serial Port

Serial port for access to PDU configuration and data



Environment Sensor Port

Sensors supported: Temp/Humidity



SynLink Ports

Daisy chain multiple PDU's to reduce network port footprint in the datacenter.

Specifications

| Input | |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Plug Type | IEC-320 C20 |
| Input Voltage | 120V,208V,240V |
| Max Input Current (Derated) | 20A (16A) |
| Phase | 1 |
| Input Energy/Power Measurements | Kilowatt hours (kWh), Current RMS (A), Line Frequency (Hz), Voltage RMS (V), Active Power (W), Apparent Power (VA), Power Factor |
| Surge Protection | Included |

| Physical | |
|-----------------------------|---------------------------|
| Form Factor | 1U |
| Dimensions | 17.00" x 1.75" x 7.88" |
| Maximum Operating Elevation | 0-10,000 ft / 0 - 3,000 m |
| Operating Temperature Range | 0C to +65C |
| Relative Humidity | 5-95% (non-condensing) |

| Output | |
|----------------------------|-----------------------|
| Outlet Receptacles | C13(8) |
| Total Number of Outlets | 8 |
| Power Capacity | 1.9kVA,3.3kVA,3.8 kVA |
| Overload Protection | None |
| Outlet Switching | Included |
| Outlet Current Measurement | Included |

| Access & Communications | |
|----------------------------|----------------------------------------------------------------------------------------------------------------|
| Networking Protocols | SNMP V1,2,3, HTTP(S) API, Web Interface, SMTP, Syslog, Telnet, SSH, Ping, DHCP, NTP |
| Serial Communication (OOB) | RJ45 RS232 Serial and USB-Serial (FTDI) |
| Ports | 1 x USB 2.0 1 x USB-Serial (FTDI) 2 x Sensor Ports 1 x 10/100 BaseT Ethernet 1 x RJ45 RS232 Serial |
| Front Panel LCD | Allow/Restrict users to manage networking & outlet configuration. |
| Firmware Upgrade | Updates with an active internet connection, remotely with web GUI, locally with USB Flash Drive |