

# SP-3101AIA-0A SynLink Smart PDU

## 3 Phase Wye Switched Pro+

Reliably distribute power to 36x independently monitored and switchable outlets in a 3-Phase Wye configuration. These PDUs provide energy monitoring at the inlet and circuit level as well as power consumption at the outlet level. Alternating phase groups helps easily balance loads. 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 Compliant

### What's Included

- Attached Plug
- 0U Mounting Bracket with M4 Screws
- 0U Toolless Button Kit
- Quick Start Guide Reference Pamphlet

### Key Stats

Form Factor: 0U  
 Max Input Current: 20A (16A)  
 Power Capacity: 11.5 kVA  
 Inlet Voltage(s): 415V  
 # Outlets: 36

### 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.



### 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	
Input Voltage	415V
Max Input Current (Derated)	20A (16A)
Phase	
Input Energy/Power Measurements	Kilowatt hours (kWh), Current RMS (A), Line Frequency (Hz), Voltage RMS (V), Active Power (W), Apparent Power (VA), Power Factor

Physical	
Form Factor	0U
Dimensions	70.00" x 2.20" x 2.76"
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(36)
Total Number of Outlets	36
Power Capacity	11.5 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