SynLink SP Series PDU

Intelligent Switched & Metered Power Distribution Units

The SynLink SP Series PDUs are enterprise-grade switched and metered power distribution units built for maximum reliability, security, and scalability. Designed for mission-critical environments, SynLink PDUs combine robust power measurement with advanced automation and integration features. With support for secure RESTful APIs, centralized management, and full outlet-level visibility, the SynLink series sets the standard for intelligent power management.

Go beyond basic control with SynLink's advanced monitoring and automation. Every unit provides outlet-level current and power metering, customizable event triggers, and dual-image firmware for power-loss-safe updates. Seamless integration with the Synaccess Central Management Portal (CMP) enables consolidated oversight of hundreds of PDUs across multiple sites from a single interface. Optional features like secondary Ethernet, serial console server, LTE out-of-band access, and ATS modules make SynLink the most versatile and future-ready PDU platform available.

APPLICATIONS
- IT Rooms/Networking Racks
- Data Centers
- AV Equipment
- Telecomm
- Kiosks
- Digital Signage
- Test Automation
- Production Automation
- Manufacturing
- Engineering Labs

KEY FEATURES
- Individual outlet control
- Outlet-level monitoring: amps, watts
- Cumulative kWh energy measurement
- Secure access: HTTPS, SSH, SNMPv1/2/3, REST API
- Central Management Portal (CMP) for fleet-wide control
- Custom event triggers with email, SNMP traps, webhooks
- Dual-copy firmware with safe upgrades
- Built-in serial console server
- Optional LTE, WiFi, ATS, and redundancy modules
- LDAP/RADIUS user management
- Environment sensor ports: temp, humidity, leak detection
- Scheduling and AutoPing reboot

Enterprise-Grade Power Control

SynLink PDUs are built for environments where uptime and visibility matter most. They combine outlet-level metering, cumulative energy tracking, and multi-sensor support with secure access and automation. Designed to scale, SynLink integrates seamlessly with the Central Management Portal (CMP), enabling streamlined management of large, distributed deployments.

INDIVIDUAL OUTLET CONTROL & AUTOMATION

Switch, sequence, and schedule power at the outlet level. Define triggers to automatically reboot devices, send alerts, or run recovery actions.

ADVANCED POWER MONITORING

View real-time and cumulative usage with outlet-level amps, watts, volts, and full-PDU kWh energy measurement. Optimize uptime and capacity planning with detailed metering.

MULTIPLE ENVIRONMENT SENSOR PORTS

Support for temperature, humidity, and leak detection sensors. Automate power and alerting based on environmental thresholds.

CENTRALIZED MANAGEMENT PORTAL (CMP)

Securely manage fleets of PDUs across sites with role-based access, mass configuration, and firmware upgrades.

BUILT-IN SERIAL CONSOLE SERVER

Access and recover critical devices remotely over serial ports without separate hardware.

ENTERPRISE SECURITY & INTEGRATIONS

Encrypted access via HTTPS, SSH, SNMPv1/2/3, REST API. LDAP, RADIUS, and Okta user management supported.

SAFETY & COMPLIANCE

UL-62368-1 certified. TÜV tested for product safety and quality. Fully TAA compliant for government procurement.

Model Specifications

Input

Input Plug Types	IEC-320 C20 NEMA 5-15P NEMA 5-20P NEMA L5-30P NEMA L6-30P NEMA L21-30P CS8365C *Multi-input models available*
Input Voltage Options	100-120VAC, 50-60Hz 100-240VAC, 50-60Hz 415VAC, 50-60Hz
Input Current Options	15 - 50A
Phase	1-Phase 3-Phase
Input Measurement	Kilowatt hours (kWh) Voltage RMS (VAC) Current RMS (A) Active Power (W) Apparent Power (VA) Line Frequency (Hz) Power Factor

Output

Outlet Voltage Options	100-120VAC 100-240VAC
Outlet Receptable Options	NEMA 5-20R IEC-320 C13 IEC-320 C19
Outlet Count Options	4, 8, 16, 24, 36
Overload Protection	UL-498 branch breakers (optional on select models)
Outlet Measurement	Amps, Watts
Outlet Switching	Individual outlet switching

Access, Communication, and Security

Networking Protocols	SNMP V1,2,3, HTTP(S) API, Web Interface, SMTP, Syslog, Telnet, SSH, Ping, DHCP, NTP
Network Interface	10/100 BaseT Ethernet (RJ45) Optional USB to Ethernet Secondary interface Optional Cellular LTE
Encryption	Yes
User Access Management	Local user accounts Cloud based Central Management Portal (CMP)
Serial Communication Options	RJ-45 RS-232 USB (FTDI-based) Baud rate: 2400 to 115200
Front Panel	Full Color LCD Configure outlet states and network settings.
Sensors	2x Environment sensor ports (temperature, humidity, leak detection, and more)

Physical

Form Factor Options	Compact (4 outlet) 1U (8 outlet) 2U (16 outlet) 0U (24 or 36 outlet)
Dimensions	**Compact:** 9"x1.75"x5.8" **1U:** 17"x1.75"x7.9" **2U:** 17"x3.5"x7.9" **0U (24 outlet)**: 48"x2.2"x2.8" **0U (36 outlet)**: 70"x2.2"x2.8"
Operating Temperature	-5C° to 60°C
Storage Temperature	-25C° to 65°C
Humidity	5-95%, non-condensing

SynLink SP Series Compact Model SKUs

SKU	Form Factor	Outlets	Inlet Plug(s)	Outlet Type(s)	Voltage	Max Amps
SP-1001CIE-01	Compact	4	(1x) IEC 320 C20	NEMA 5-20R	100-120 VAC	20A (16A)
SP-1001CIE-02	Compact	4	(1x) IEC 320 C20	IEC 320 C13	100-240 VAC	20A (16A)

SynLink SP Series 1U Model SKUs

SKU	Form Factor	Outlets	Inlet Plug(s)	Outlet Type(s)	Voltage	Max Amps	Feature Note
SP-1001AIE-01	1U	8	(1x) IEC 320 C20	NEMA 5-20R	100-120 VAC	20A (16A)	Outlet-level measurements
SP-1001AIE-02	1U	8	(1x) IEC 320 C20	IEC 320 C13	100-240 VAC	20A (16A)	Outlet-level measurements
SP-1001BIE-01	1U	8	(1x) IEC 320 C20	NEMA 5-20R	100-120 VAC	20A (16A)	PDU-level measurements
SP-1001BIE-02	1U	8	(1x) IEC 320 C20	IEC 320 C13	100-240 VAC	20A (16A)	PDU-level measurements
SP-1004AIE-01	1U	8	(2x) IEC 320 C20 Automatic Transfer Switch	NEMA 5-20R	100-240 VAC	20A (16A)	ATS, Outlet-level measurements

SynLink SP Series 2U Model SKUs

SKU	Form Factor	Outlets	Inlet Plug(s)	Outlet Type(s)	Voltage	Max Amps	Feature Note
SP-2001AIE-04	2U	16	(1x) IEC 320 C20	NEMA 5-20R	100-120 VAC	20A (16A)	-
SP-2008AIE-04	2U	16	(2x) IEC 320 C20 Dual Circuit	NEMA 5-20R	100-120 VAC	2× 20A (16A)	8x Outlets per input
SP-2001ANJ-06	2U	16	(1x) NEMA L5-30P	(4x) C19 (12x) C13	100-120 VAC	30A (24A)	2× 1-Pole Breakers (UL-498)
SP-2001ANK-06	2U	16	(1x) NEMA L6-30P	(4x) C19 (12x) C13	100-240 VAC	30A (24A)	2× 2-Pole Breakers (UL-498)
SP-2004ANK-06	2U	16	(2x) IEC 320 C20 Automatic Transfer Switch	(4x) C19 (12x) C13	100-240 VAC	30A (24A)	ATS, 2× 2-Pole Breakers (UL-498)

SynLink SP Series 0U (Single Phase) Model SKUs

SKU	Form Factor	Outlets	Inlet Plug(s)	Outlet Type(s)	Voltage	Max Amps	Feature Note
SP-4001AIE-07	0U	24	(1x) IEC 320 C20	NEMA 5-20R	100-120 VAC	20A (16A)	-
SP-4001ANJ-07	0U	24	(1x) NEMA L5-30P	NEMA 5-20R	100-120 VAC	20A (16A)	2× 1-Pole Breakers (UL-498)
SP-4001ANJ-0C	0U	36	(1x) NEMA L5-30P	NEMA 5-20R	100-120 VAC	30A (24A)	2× 1-Pole Breakers (UL-498)
SP-4001ANK-09	0U	24	(1x) NEMA L6-30P	(4x) C19 (20x) C13	100-240 VAC	30A (24A)	2× 2-Pole Breakers (UL-498)
SP-4001ANK-0B	0U	36	(1x) NEMA L6-30P	(6x) C19 (30x) C13	100-240 VAC	30A (24A)	2× 2-Pole Breakers (UL-498)
SP-4004AIE-07	0U	36	(2x) IEC 320 C20 Automatic Transfer Switch	NEMA 5-20R	100-120 VAC	20A (16A)	ATS
SP-4001AIE-0C-001T	0U	36	(3x) IEC 320 C20 Triple Circuit	NEMA 5-20R	100-120 VAC	3 × 20A (16A)	12x Outlets per input

SynLink SP Series 0U (Three Phase) Model SKUs

SKU	Form Factor	Outlets	Inlet Plug(s)	Outlet Type(s)	Output Voltage	Max Amps (Per Line)	Feature Note
SP-3001AND-0A	0U	36	(1x) NEMA L21-30P	(36x) C13	200-208 VAC	30A (24A)	3× 2-Pole Breakers (UL-498)
SP-3001AND-0B	0U	36	(1x) NEMA L21-30P	(6x) C19 (30x) C13	200-208 VAC	30A (24A)	3× 2-Pole Breakers (UL-498)
SP-3001AHA-0A	0U	36	(1x) CS8365C	(36x) C13	200-208 VAC	50A (35A)	3× 2-Pole Breakers (UL-498)
SP-3001AHA-0B	0U	36	(1x) CS8365C	(6x) C19 (30x) C13	200-208 VAC	50A (35A)	3× 2-Pole Breakers (UL-498)
SP-3001BND-0D	0U	36	(1x) NEMA L21-30P	(6x) C19 (12x) C13 (18x) NEMA 5-20R	200-208 VAC, 100-120 VAC	30A (24A)	3× 2-Pole Breakers (UL-498)

Customizations

Customization	Description	Applicable Models
Automatic Transfer Switch (ATS)	Automatically switch to a secondary power source during a primary source outage without interrupting power	• SP-1004* series PDUs • SP-2004* series PDUs • SP-4004* series PDUs
Surge Protection	Safeguard against power spikes with surge protection	All SynLink Single Phase PDUs
Integrated LTE Modem	Ensure out-of-band access and control, even without local network availability.	• SP-1000* series PDUs
Dual Circuit Multi-Inlet	Upgrade your PDU with an additional input plugs, creating 2 isolated circuits where outlet banks are powered by dedicated inputs. A/B Side redundancy in a single form factor.	• SP-1008B* series PDUs • SP-2008* series PDUs • SP-4008* series PDUs
Quad Circuit Multi-Inlet	Upgrade your PDU with 3 additional input plugs, creating 4 isolated circuits where outlet banks are powered by dedicated inputs—effectively quadruple the power capacity per PDU.	• SP-2008B* series PDUs
Step-Down Transformer	Convert high-voltage 208–240V input into 120V output, enabling use of standard 120V equipment in facilities wired for higher voltage.	• SP-2000* series PDUs

Compatible Accessories

Accessory	Description	Applicable Models
Synaccess Temperature/ Humidity Sensor (SPA-0010)	Plug-and-play sensor for temperature and humidity monitoring. Integrates with the event/action engine for automated alerts and responses.	All SynLink Single Phase PDUs
Synaccess Sensor & Actuator Control Hub	Adds compatibility with third-party sensors (e.g. leak detection, etc.) and actuators (e.g. solenoids, ball valves, etc), expanding automation options.	All SynLink Single Phase PDUs
WiFi Dongle	Enables wireless connectivity and automation by connecting to the SynLink PDU's USB 2.0 host port.	All SynLink Single Phase PDUs
USB to Ethernet Dongle	Provides a secondary Ethernet interface for out-of-band management and network redundancy. Supports failover to maintain connectivity during outages.	All SynLink Single Phase PDUs
USB 2.0 Hub Expansion	Expands USB ports to support multiple serial console servers or accessories.	All SynLink Single Phase PDUs
Mounting Brackets	Standard rackmount brackets included with 1U/2U/0U models. Custom bracket options available upon request.	All SynLink Single Phase PDUs