

SP Series

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Uninterruptible Power for Traffic Applications



SP U-MPL Series
Featuring: Power Channel™ Technology

The SP U-MPL Series and the Outpost™ Series batteries are designed for outdoor use and will operate in extreme temperature environments of 0°C to +60°C (32°F to +122°F).

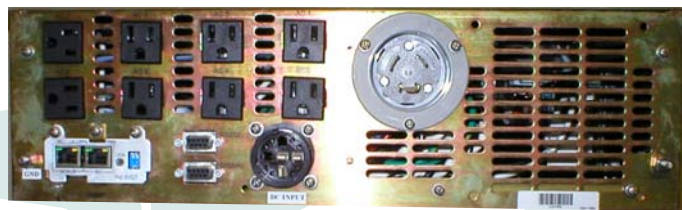


SP1250U-MPL, SP1500U-MPL, SP2000U-MPL & SP2400U-MPL

The SP U-MPL Series is an on-line power conditioner/UPS, utilizing "Power Channel" Technology to either manually or remotely control from one to eight loads. This unique feature allows for selective control of loads from local or remote locations to facilitate load control, power reset or power shedding capabilities. The system also features extreme temperature capability, utilizing Clary's 41 or 51Ahr Outpost Batteries with polarized connectors for up to 6 hours of back-up operation. System measurements are 5.25 inches tall by 19 inches wide by 18.5 inches deep. Eight individually controlled 5-15R receptacles are provided to connect to various user loads.

Featuring:

- Provides ON-LINE, conditioned, re-manufactured power for cabinet equipment protection with manual or remote load control. Remote control via TCP/IP browser connection.
- TCP/IP- Communicates with monitoring center or other equipment via SNMP-TCP/IP adapter, standardly configure.
- Available Models:
SP1250U-MPL/875w, SP1500U-MPL/1050w,
SP2000U-MPL/1400w, SP2400U-MPL/1680w.
- Power Factored Corrected for reliable, safe power.



Rear View

Where POWER is a way of life

Uninterruptible Power for Traffic Signal Applications

CLARY
The Continuous Power Company™

SIGNAL POWER



SP U-MPL Series Specifications

ELECTRICAL

Input

Voltage	120 VAC +12% (135 VAC), -25% (90 VAC) (before battery use)
Frequency	48 to 62 Hz

Output

Voltage	120 VAC ±3%
Frequency	50 or 60 Hz

Rating:

SP1250U-MPL	1,250 VA/875 Watts
SP1500U-MPL	1,500 VA/1050 Watts
SP2000U-MPL	2,000 VA/1400 Watts
SP2400U-MPL	2,400 VA/1680 Watts

Crest Factor Ratio (Non-linear Load and < 5% THD) Typical	@50% Load	Up to 4.8:1
	@75% Load	Up to 3.2:1
	@100% Load	Up to 2.4:1

Total Harmonic Distortion (THD)	3.0% Typ. 5% Max.
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Dynamic Response	±4% for 100% Step Load Change 0.5 ms Recovery Time
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Overload	110% for 10 sec; 200% for .05 sec
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UPS Protection	Input and Output Short Circuit; Input and Output Overload; Excessive Battery Discharge
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ENVIRONMENTAL

Operating Temp.	-0°C to +60°C (32F to +122°F)
Humidity	0% to 95% Non-condensing
Altitude	Sea Level to 10,000 ft (some derating of temp. w/altitude > 6,000 ft)

MECHANICAL

Input	5-20P plug on 6ft cord
Outputs	5-15R receptacle, 8 each

CUSTOM Options

Cabinet	NEMA, 332 Cabinet Style Configurations Available; NEMA 3R Type II and Type III Optional
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Consult Factory for other Custom options

DESIGN

Standard Features	Power Factor Corrected Input; Fully Regenerative; True On-Line Continuous Power; Low Distortion Sinewave Output; Designed for Non-linear Loads; Extended Brownout Protection; EIA/RS232 Data Interface
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Specifications	Meets FCC Class A, IEEE 587/ANSI C62.41, IEC 555 @ 120 VAC and NEMA Stds
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MTBF	Inverter: > 100,000 hrs System w/Bypass: 150,000 hrs Calculated from Component Spec
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Typical Recharge Time to 85% Capacity @ 100% Load	48-72 hrs (more time required with extended battery option) Less than 20 hrs with optional Fast Battery Charger
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CONTROLS AND INDICATORS

Ramping LEDs	Battery Level; Load Level
Single LEDs	AC In; Inverter On; Low Battery and Summary Alarm; Alarm Silence

Control Panel	Power On; Cold Start; Test; Alarm Silence; Event Counter (w/Reset); Hour Meter; Battery Disconnect
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Audible Alarms	Utility Interrupt; Inverter Failure; Overload; Low Battery; Self Test
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Serial Interface for EIA 232. Optional NTCIP and TCP/IP via Standard RJ45 Connector	Full Interactive Remote Computer Monitoring and Control of Most Features Including Load Control (requires optional monitoring software); NTCIP and TCP/IP Ready
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Contact Closures ("D" connector)	Open Collector for Remote Annunciation of Power Up, Power Down, On Battery, Low Battery and Alarms
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Preliminary Specification subject to change without prior notice.



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Model	VA	Watts	Input Current (A)	Output Current (A)	Backup Time* 100% / 50% Load	Unit Weight (lbs)	Rackmount H x W x D (in)
SP1250U-MPL	1250	875	8.8	10.4	1.5 hrs. / 3.5 hrs.	40	5.25 x 19.0 x 18.5
SP1500U-MPL	1500	1050	8.8	10.4	1.5 hrs. / 3.5 hrs.	40	5.25 x 19.0 x 18.5
SP2000U-MPL	2000	1400	14.3	20.0	1.4 hrs. / 4.1 hrs.	40	5.25 x 19.0 x 18.5
SP2400U-MPL	2400	1680	20.0	20.0	1.2 hrs. / 4.0 hrs.	40	5.25 x 19.0 x 18.5

* Back-up time based on 41Ahr batteries

CLARY
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Made in the USA

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