

SP Series

SP Series



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).

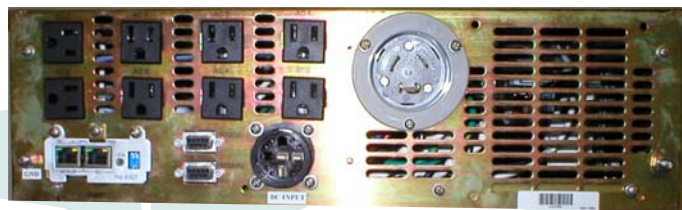


SP1250U-MPL, SP1500U-MPL, SP2000U-MPL & SP2400U-MPL

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 provide 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

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|-----------|-------------|
| Voltage | 120 VAC ±3% |
| Frequency | 50 or 60 Hz |

Rating:

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|-------------|---------------------|
| 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 |

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|---|-----------------------|-----------------------|------------------------|
| 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 |
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| 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

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|-----------------|---|
| 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

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

CUSTOM Options

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| 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

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| 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

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

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| 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.



Uninterruptible Power for Traffic Signal Applications

| 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
The Continuous Power Company™

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Made in the USA

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