



## SPS MINI-TOWER OFF-LINE UPS

The SolaHD SPS Series by Emerson provides economical protection from damaging impulses and power interruptions. These units include three outlets for critical devices needing battery back-up and surge protection. The SPS is ideal for industrial environments as well as point of sale and office applications.

### APPLICATIONS

- PCs
- Workstations
- Computer Terminals

### FEATURES

- Lightweight, compact design
- NEMA 5-15R outlets, protected by battery and surges
- USB communications Interface
- Cable included with free software download
- Two year limited warranty

### CERTIFICATIONS AND COMPLIANCES

-  Listed, UPS Equipment  
— UL 1778, CSA C22.2 No. 107.3
- RoHS Compliant

### RELATED PRODUCTS

- Surge Protective Devices
- Active Tracking® Filters
- Portable MCR Power Conditioners

### SELECTION TABLE

| Capacity<br>(VA/W) | Catalog<br>Number | Volts, Frequency<br>In/Out | Typical Back-up Time<br>(minutes) | Input Plug/<br>Output Receptacle |
|--------------------|-------------------|----------------------------|-----------------------------------|----------------------------------|
| 850/510            | SPS850            | 120 Vac, 60 Hz             | 2.5                               | 5-15P / Three 5-15R              |

### SPS ACCESSORIES

| Catalog Number | Description                                              | Approx. Ship Weight<br>lbs (kg) |
|----------------|----------------------------------------------------------|---------------------------------|
| SLNSPSPMBRK    | Wall/panel mount bracket kit for SPS (600 VA~850 VA) UPS | 1.0 (0.45)                      |

**SOLAHD**

For product information:  
[www.solahd.com](http://www.solahd.com)  
1.800.377.4384



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## SPECIFICATIONS

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Catalog Number                                            | SPS850                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Topology                                                  | Offline                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Capacity (VA/W)                                           | 850/510                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Dimensions                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Unit (H x W x D) - in. (mm)                               | 5.6x4.1x11.82 (142x104x300.2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Ship Weight - lbs (kg)                                    | 8.16 (3.7) ± 10%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Input Parameters                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Voltage                                                   | 120 Vac -25% / +20%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Frequency                                                 | 60 Hz +/- 10% (auto sensing)                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Input Power Cord                                          | 5 ft. with NEMA 5-15P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Output AC Parameters                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Voltage (Battery Mode)                                    | 120V±10%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Frequency (On Battery)                                    | 60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Auto Voltage Regulation (AVR function under Normal Mode)  | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Overload Protection                                       | Breaker Protection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Short Circuit<br>*OSCP is Output Short Circuit Protection | <ol style="list-style-type: none"> <li>1. The Output current continues over 250% within 60ms to OSCP* and then goes to Battery MODE.</li> <li>2. UPS goes to retry mode every 10 seconds until the Battery Voltage (<math>V_b</math>) &lt; 11V/cell.</li> <li>3. The Battery recharges when the <math>V_b</math> &gt; 12.7V/cell, then UPS continues retry mode every 10 seconds.</li> <li>4. UPS goes to auto recovery mode until the short circuit disappears then goes back to LINE Mode.</li> </ol> |
| Battery Parameters                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Battery Type                                              | VRLA, maintenance free, sealed, lead-acid cells                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Transfer Time                                             | Typical: 8ms, max. <10ms@AC mode to backup mode                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Typical Recharge Time                                     | 8 hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Environmental                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Operating Temperature                                     | 0 to +40°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Storage Temperature                                       | -15 to +45°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Relative Humidity                                         | 0% to 90% relative humidity, non-condensing                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Audible Noise                                             | ≤40 dBA without audible alarm beyond 1m at rated load                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Standards                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| EMC                                                       | FCC Part 15, Subpart B, Class A; EN62040-2; EN55032; CISPR22                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Surge Protection                                          | Meets IEEE C62.41, Category A                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Certifications                                            | cULus Listed, UPS Equipment UL 1778, CAS C22.2 No. 107.3                                                                                                                                                                                                                                                                                                                                                                                                                                                |