

SSW Mini-Tower Line-Interactive UPS

The SolaHD SSW Series is an economical choice for those applications requiring the performance of a sinewave output, line interactive UPS with the mini-tower shape for cabinet installations. The SSW Series protects against most severe power disturbances through state-of-the-art, line-interactive technology. Most power disturbance corrections are accomplished without transferring to the internal battery. Utility power is continually protected by the SSW Series UPS and internal battery life is optimized.

This UPS has built in protection for under and over voltage conditions including low-energy lightning surges introduced on the input power source. All SSW Series UPS are provided with an input circuit protector and surge protected data line connectors. The SSW Series UPS is provided with a battery test function. Should the battery fail this test, the UPS will display a warning to indicate that the battery needs to be replaced.

Applications

- Workstations
- PLCs
- Robotics and Process Control
- Industrial Automation Systems
- Automatic Service & Dispensing Equipment

Features

- Mini-Tower design for control cabinet installation
- Automatic voltage regulation (AVR) topology saves battery power for deep voltage sag situations
- Sine wave output
- User replaceable, "hot swappable" batteries
- USB communications port
- Built-in surge protection
- Cold start capability
- Power management software available (UPSWATCH).
- 50/60 Hz auto sensing
- Protects against most adverse power conditions including:
 - Frequency variations
 - Surge
 - Sags
 - Spike
 - Blackouts
 - Over and under voltages
- Two year limited warranty



Certifications and Compliances

- cULus Listed, UPS Equipment
 - UL 1778, CSA C22.2 No. 107.3
- IEEE C62.41, Category A & B
- RoHS Compliant

Related Products

- Portable MCR Power Conditioners
- Surge Protective Devices
- SolaHD Tracking Filters

Battery Back-up Times Chart

Model	SSW1000	SSW1500
Load (%)	Run-Time (minutes)	
20%	30	40
40%	14	18
50%	11	12
70%	7	5.5
100%	3	2.6

Note: Run times in this table are approximate. Based on new, fully charged standard batteries at a temperature of 25°C (77°F) with 100% resistive UPS loading. Run times listed above can vary by +/-5% due to manufacturing variances of the batteries.

SSW Specifications

Catalog Number	SSW1000	SSW1500
Topology	Line Interactive sinewave	
Capacity (VA/W)	1000/750	1440/1200
Dimensions		
Unit (H x W x D) – in. (mm)	9.09 x 6.69 x 12.4 (231 x 170 x 315)	9.09 x 6.69 x 16.97 (231 x 170 x 431)
Ship Weight – lbs (kg)	32.41 (14.7) ± 10%	50.71 (23.0) ± 10%
Input Parameters		
Voltage	120 Vac -23%/+29%	
Frequency	50/60 Hz +/-10% (auto sensing)	
Input Power Cord	5 ft. with NEMA 5-15P	
Output AC Parameters		
Voltage (Battery Mode)	120V±10%	
Frequency (On Battery)	50/60 Hz	
Auto Voltage Regulation (AVR function under Normal Mode)	V _{out} = Input 102 Vac x 118% at Boost mode V _{out} = Input 138 Vac x 85% at Buck mode	
Overload Protection	Line Mode: 1. 110%±5% load for 5 minutes. After 5 minutes at 110%±5%, power will not be provided to the load. Then, every 10 minutes, auto recovery will be attempted. 2. 120%±5% load for 10 seconds. After 10 seconds at 120%±5%, power will not be provided to the load. Then, every 10 minutes, auto recovery will be attempted. 3. 130%±5% load for 1.5 seconds. After 1.5 seconds at 130%±5%, power will not be provided to the load. Then, every 10 minutes, auto recovery will be attempted.	
Short Circuit	1. The output current continues over 125% within 60ms to OSCP* and then goes to Battery Mode. 2. UPS goes to retry mode every 10 seconds until Battery Voltage (V _B) <11V/cell. 3. The battery recharges when the V _B > 12.7V/cell, then UPS continues retry mode every 10 seconds. 4. UPS goes into auto recovery mode until the short circuit disappears then goes back to Line Mode.	
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°C to +40°C	
Storage Temperature	-15°C to +50°C	
Relative Humidity	0% to 90% relative humidity, non-condensing	
Audible Noise	Models SSW700 and SSW1000: ≤40dBA without audible alarm beyond 1m at rated load Model SSW1500: ≤45dBA without audible alarm beyond 1m at rated load	
Standards		
Certifications	cULus Listed, UPS Equipment UL 1778, CSA C22.2 No. 107.3	
EMC	FCC Part 15, Subpart B, Class A; EN62040-2; EN55032; CISPR22	
Surge Protection	Meets IEEE C62.41, Category A & B L-L:1kV; L-E: 2kV	

* Note: 1200W at 0.75 power factor equals 1600 VA. Line cord limits total load to 1440 VA (max.).