



SPC Series

Single Phase, On-Line Double Conversion
1000 - 3000VA

5 & 10 Year Warranty Guarantee

ORE POWER SOLUTIONS

Single Phase 1000 - 3000VA

SPC Series

Single Phase, On-Line Double Conversion

SYSTEM HIGHLIGHTS

True Double Conversion On-Line UPS

- A true double conversion UPS will provide clean, high level quality power to fully protect mission-critical devices such as sensitive networks, small computer servers, telecom applications, as well for industrial applications.

Output Power Factor 0.9

- The SPC series is a high-density UPS with an output power factor 0.9 to provide higher performance and efficiency to critical applications

User-Friendly and Easy-Shift LCD Display

- The front panel digital display can be easily shifted through LCD setting to suit the installation format, Tower or Rack Mount

Rack/Tower Design

- The SPC series is designed in true universal-mount case. It can be easily installed as a free standing tower or in a 19-inch rackmount configuration.

Programmable Power Management Outlets

- With programmable power management outlets, users can easily and independently control load segments. During power failure, this feature enables users to extend battery time to mission-critical devices.

50/60 Hz Frequency Converter Mode

- Lock output frequency at 50Hz or 60Hz to suit power sensitive equipment

Hot Swappable Battery Design

- Ensures clean and uninterruptible power protected equipment during battery replacement

ECO & Advanced ECO Mode

Emergency Power Off Function



OUR WARRANTY

ORE Power is proud to offer a standard **5 year** warranty on all of our single phase products with the option to extend to **10 years**.

*All units must be registered on our website to qualify for 5 year warranty. Visit www.orepowersolutions.com/register for more information

Beyond Our Equipment

ORE Power Solutions partners with a network of highly trained and motivated customer support engineers and technicians who can provide professional services and care throughout the life of your equipment. **Services include: Start-Ups, Preventative Maintenance, Spare Parts, Battery Maintenance, On-Site Training, Time & Material Services & more!**

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Optional Maintenance Bypass & NB Model Technical Specifications



Optional Maintenance Bypass

Model Number	Rating	Input Connection	Output Receptacles
SPC-MBPDU-11	1000VA & 900VA	Attached 6' Cord with 5-15P	(8) 5-15R
SPC-MBPDU-21	2000VA & 1700VA	Attached 6' Cord with 5-20P	(6) 5-15R & (2) 5-20R
SPC-MBPDU-31	3000VA & 2500VA	Attached 6' Cord with L5-30P	(4) 5-15R & (1) 5-30R

Dimensions: 3.50" H x 17.30"W x 3.00"D (2U) / [88.9 x 439.4 x 76.2]

SPC Series, Universal Rack/Tower Mount 120VAC, 1000VA, 1500VA, 2000VA & 3000VA & NB Models, 900VA, 1250VA, 1700VA & 2500VA

UPS On-line, Double-Conversion – LCD Panel, USB and RS-232 Standard

Model Number	VA/Watts	Internal Battery (Minutes)	Input Cord	Output Connection	*Dimensions H" x W" x D" / [mm]	*Wt. lbs. / (kg)
SPC-1000	1000VA / 900W	4	5-15P	(4) 5-15R	3.39" x 17.24" x 16.44" (2U) [86.2 x 438.0 x 417.5]	29 / (13)
SPC-1500	1500VA / 1350W	4	5-15P	(4) 5-15R	3.39" x 17.24" x 20.38" (2U) [86.2 x 438.0 x 517.5]	42 / (19)
SPC-2000	2000VA / 1800W	4	5-20P	(8) 5-20R	3.39" x 17.24" x 20.38" (2U) [86.2 x 438.0 x 517.5]	47 / (21)
SPC-3000	3000VA / 2700W	4	L5-30P	(4) 5-20R & (1) L5-30R	3.39" x 17.24" x 27.74" (2U) [86.2 x 438.0 x 704.6]	65 / (29)
SPC-1000-NB	900VA / 810W	0	5-15P	(4) 5-15R	3.39" x 17.24" x 16.44" (2U) [86.2 x 438.0 x 417.5]	20 / (9)
SPC-1500-NB	1250VA / 1125W	0	5-15P	(4) 5-15R	3.39" x 17.24" x 20.38" (2U) [86.2 x 438.0 x 517.5]	26 / (12)
SPC-2000-NB	1700VA / 1530W	0	5-20P	(8) 5-20R	3.39" x 17.24" x 20.38" (2U) [86.2 x 438.0 x 517.5]	28 / (13)
SPC-3000-NB	2500VA / 2250W	0	L5-30P	(4) 5-20R & (1) L5-30R	3.39" x 17.24" x 27.74" (2U) [86.2 x 438.0 x 704.6]	33 / (15)

Standard Models: Maximum (1) External Battery Pack (SPC-BAT-1K, SPC-BAT-1.5K, SPC-BAT-2K or SPC-BAT-3K) NB Models: Maximum (5) External Battery Pack (SPC-BAT-1K, SPC-BAT-1.5K, SPC-BAT-2K or SPC-BAT-3K)

- Note:
1. NB Models do not have internal batteries.
 2. Unit ships with bundled NetAgent 9 Shutdown Software.
 3. All units ship with floor stand and rack mount hardware.

*Always reference Spec Control Drawing (SCD) for the most current & accurate dimensions and weights

ORE POWER SOLUTIONS

Single Phase 1000 - 3000VA

SPC Series

120/120VAC Technical Specifications

MODEL	1000	1000-NB	1500	1500-NB	2000	2000-NB	3000	3000-NB
Capacity VA / Watts	1000 VA 900 W	900 VA 810W	1500 VA 1350 W	1250 VA 1125 W	2000 VA 1800 W	1700 VA 1530 W	3000 VA 2700 W	2500 VA 2250 W
INPUT								
Capacity	Rated Volts	100VAC-120VAC						
	Low Transfer	Low Voltage 80 VAC/70 VAC/60 VAC/55 VAC ± 5 % (based on load percentage 100%-80% / 80%-70% / 70%-60% / 60%-0)						
	Re-Transfer	Low Voltage Re-Transfer 85 VAC/75 VAC/65 VAC/60 VAC ± 5 %						
	High Transfer	High Voltage 150 VAC ± 5 %						
	Re-Transfer	High Voltage Re-Transfer 142 VAC ± 5 %						
Frequency Range	50Hz/ 60Hz							
Power Factor	≥0.99 @ nominal voltage							
OUTPUT								
Output Voltage	100*/110*/115*/120VAC							
AC Voltage Regulation	± 1%							
Frequency Range	47 ~ 53 Hz or 57 ~ 63 Hz (Synchronized Range)							
Frequency Range	50Hz ± 0.5% or 60Hz ± 0.5% (Bat. Mode)							
Current Crest Ratio (CF)	5:1 (max.)							
Harmonic Distortion (THDU)	≤ 2% (Linear load) 8% max (Battery mode before shut down)							
Transfer Time	AC to DC	Zero						
	Inv. to Bypass	4 ms (Typical)						
Waveform (Battery Mode)	Pure Sinewave							
EFFICIENCY								
AC Mode	86% (typical), 88% (peak)				88% (typical), 90% (peak)			
Battery Mode	83% (typical), 86% (peak)				85% (typical), 88% (peak)			
BATTERY (NON-LB MODELS)								
Battery Type	(2) 12V/9Ah	No Internal	(3) 12V/9Ah	No Internal	(4) 12V/9Ah	No Internal	(6) 12V/9Ah	No Internal
Battery Time (Full Load)	4	0	4	0	4	0	4	0
Typical Recharge Time	4 hours recover to 90% capacity (for Non-LB models only)							
Charging Current (max.)	1 Amp	6 Amp	1 Amp	6 Amp	1 Amp	6 Amp	1 Amp	6 Amp
Charging Voltage	27.4 VDC ± 1%		41.1 VDC ± 1%		54.7 VDC ± 1%		82.1VDC ± 1%	
LCD DISPLAY								
Status	Load level 0-25%, 26-50%, 51-75% and 76-100%, Low Battery and Battery Good, Programmable Management Outlets working, UPS On-Line, UPS in Frequency Converter Mode, UPS On Bypass, Alarm Disabled Indicator and Battery Charger Working.							
Readings	Input Voltage and Frequency, Output Voltage and Frequency, Battery Backup Time (hours/minutes), Fault Indicator, Battery Voltage, Overload, and/or UPS Output is short circuited.							
Control/Select Buttons	Off/Enter - Turn UPS Off, Switch LCD Message, Mode Settings, Navigation Key, On/Mute + Select Button to switch to Bypass Mode.							
AUDIBLE & VISUAL ALARMS								
Warning Indicators	Low battery, Overload, Battery Not Connected, Overcharge, Site Wiring Fault, EPO Enabled, Over Temperature, Charger Failure, Battery Fault, Bypass Out of Range and Bypass Frequency Unstable							
**PHYSICAL WEIGHT & DIMENSIONS H" x W" x D" / [mm]								
Rack Mount	3.39" x 17.24" x 16.44" (2U) [86.2 x 438.0 x 417.5]		3.39" x 17.24" x 20.38" (2U) [86.2 x 438.0 x 517.5]		3.39" x 17.24" x 20.38" (2U) [86.2 x 438.0 x 517.5]		3.39" x 17.24" x 27.74" (2U) [86.2 x 438.0 x 704.6]	
Tower	17.24" x 3.39" x 16.44" (2U) [438.0 x 86.2 x 417.5]		17.24" x 3.39" x 20.38" (2U) [438.0 x 86.2 x 517.5]		17.24" x 3.39" x 20.38" (2U) [438.0 x 86.2 x 517.5]		17.24" x 3.39" x 27.74" (2U) [438.0 x 86.2 x 517.5]	
Net Weight lbs. / (kg)	29 / (13)	20 / (9)	42 / (19)	26 / (12)	47 / (21)	28 / (13)	65 / (29)	33 / (15)
ENVIRONMENT (Electronics)								
Operating	32°F (0°C) to 104°F (40°C)							
Humidity	20-90 % RH (non-condensing)							
Storage	-13°F (-25°C) to 104°F (40°C) BATTERIES (REFRESH Charge @ 3 months)							
Noise Level	Less than 50dBA @ 1 Meter							
MANAGEMENT / COMMUNICATION								
Smart RS-232/USB	Supports Windows 2000/2003/XP/Vista/2008/7, Linux, Unix, and MAC							
Optional SNMP Card	Power management from SNMP manager and web browser							
Optional MODBUS Card	Communications from MODBUS							
Optional AS400 Card	With DB9 or 9 Pin Connector							
AGENCY								
Listing	UL1778/cUL	UL1778/cUL	UL1778/cUL	UL1778/cUL	UL1778/cUL	UL1778/cUL	UL1778/CE/cUL	UL1778/CE/cUL

* Derate capacity to 95% when the output voltage is adjusted to 115VAC. Derate capacity to 90% when the output voltage is adjusted to 110VAC. Derate capacity to 80% when the output voltage is adjusted to 100VAC.

**Always reference Spec Control Drawing (SCD) for the most current & accurate dimensions and weights

ORE POWER SOLUTIONS

Single Phase 1000 - 3000VA

SPC Series

Battery Runtime Charts

Standard External Battery Run Time Chart - Minutes Used with SPC Series, 120 VAC, Universal Tower/Rack 1000VA, 1500VA, 2000VA & 3000VA

UPS Rating	Part Number	Quantity Cabinets	# Strings Internal/External	25% Load	50% Load	75% Load	100% Load	*Dimensions H" x W" x D" / [mm]	*Wt. lbs. / (kg)
1000VA	Internal	0	1/0	26.9	11.7	6.6	4		
	SPC-BAT-1K	1	1/2	103.3	47	29.2	20.2	3.39" x 17.24" x 17.04" (2U) [86.2 x 438.0 x 432.7]	38 / (17)
1500VA	Internal	0	1/0	26.9	11.7	6.6	4		
	SPC-BAT-1.5K	1	1/2	103.3	47	29.2	20.2	3.39" x 17.24" x 20.97" (2U) [86.2 x 438.0 x 532.7]	55 / (25)
2000VA	Internal	0	1/0	26.9	11.7	6.6	4		
	SPC-BAT-2K	1	1/2	103.3	47	29.2	20.2	3.39" x 17.24" x 20.97" (2U) [86.2 x 438.0 x 532.7]	64 / (29)
3000VA	Internal	0	1/0	26.9	11.7	6.6	4		
	SPC-BAT-3K	1	1/2	103.3	47	29.2	20.2	3.39" x 17.24" x 25.70" (2U) [86.2 x 438.0 x 652.7]	91 / (41)

Note: 1. ONLY (1) Standard Battery Pack can be used on the SPC-X0002 Models without effecting recharge time.
 If (2) battery packs are used the recharge will take twice the time.
 2. If longer run times are needed or future expansion is planned the NB Model is recommended.
 3. Run times included total of internal and external battery strings.

*Always reference Spec Control Drawing (SCD) for the most current & accurate dimensions and weights

Standard External Battery Run Time Chart - Minutes Used with SPC Series, 120VAC, NB Models, Universal Rack/Tower 900VA, 1250VA, 1700VA & 2500VA

UPS Rating	Part Number	Quantity Cabinets	# Strings	25% Load	50% Load	75% Load	100% Load	*Dimensions H" x W" x D" / [mm]	*Wt. lbs. / (kg)
900VA	Internal	0	0	0	0	0	0		
	SPC-BAT-1K	1	2	71.8	32.5	20	13.7	3.39" x 17.24" x 17.04" (2U) [86.2 x 438.0 x 432.7]	38 / (17)
		2	4	165.8	76	47.4	33.1		76 / (34)
1250VA	Internal	0	0	0	0	0	0		
	SPC-BAT-1.5K	1	2	78.8	35.7	22	15.2	3.39" x 17.24" x 20.97" (2U) [86.2 x 438.0 x 532.7]	55 / (25)
		2	4	181.8	83.4	52.1	36.4		110 / (50)
1700VA	Internal	0	0	0	0	0	0		
	SPC-BAT-2K	1	2	76.9	34.9	21.5	14.8	3.39" x 17.24" x 20.97" (2U) [86.2 x 438.0 x 532.7]	64 / (29)
		2	4	177.5	81.5	50.8	35.5		128 / (58)
2500VA	Internal	0	0	0	0	0	0		
	SPC-BAT-3K	1	2	78.8	35.7	22	15.2	3.39" x 17.24" x 25.70" (2U) [86.2 x 438.0 x 652.7]	91 / (41)
		2	4	181.8	83.4	52.1	36.4		182 / (82)

Note: Weights include the total of all cabinets

*Always reference Spec Control Drawing (SCD) for the most current & accurate dimensions and weights

ORE POWER SOLUTIONS

Single Phase 1000 - 3000VA

SPC Series

Battery Runtime Charts (Continued)

Extended Battery Run Time Chart - Minutes Used with SPC Series, 120VAC, LB Models, Universal Rack/Tower 900VA, 1250VA, 1700VA & 2500VA

UPS Rating	Part Number	Quantity Cabinets	# Strings	25% Load	50% Load	75% Load	100% Load	*Dimensions H" x W" x D' / [mm]	*Wt. lbs. / (kg)
(2) HR1290W Batteries per string									
900VA	SPC-BAT-90-1K-1	1	1	97.2	43.8	26.7	18.2	8.72" x 19.00" x 22.94"(5U) [221.5 x 482.6 x 582.5]	69 / (31)
	SPC-BAT-90-1K-2	1	2	220.2	102.9	64.2	44.7		100 / (45)
	SPC-BAT-90-1K-3	1	3	349.5	166.4	105.1	73.9		130 / (59)
	SPC-BAT-90-1K-4	1	4	481.9	232.4	148.1	104.7		160 / (73)
	SPC-BAT-90-1K-5	1	5	616.2	300	192.3	136.6		190 / (86)
	SPC-BAT-90-1K-4	2	8	1030.1	507.7	329.4	236.4	17.44" x 19.00" x 22.94" (10U) [443.0 x 482.6 x 582.5]	320 / (146)
SPC-BAT-90-1K-5	2	10	> 1200	648.8	423.2	305.1		380 / (172)	
(2) HR12150W Batteries per string									
900VA	SPC-BAT-150-1K-1	1	1	187.2	91.7	57.9	39.8	8.72" x 19.00" x 22.94"(5U) [221.5 x 482.6 x 582.5]	90 / (41)
	SPC-BAT-150-1K-1	2	2	398.6	197	129.1	93.2	17.44" x 19.00" x 22.94" (10U) [443.0 x 482.6 x 582.5]	180 / (82)
	SPC-BAT-150-1K-2	1	2	398.6	197	129.1	93.2	8.72" x 19.00" x 22.94"(5U) [221.5 x 482.6 x 582.5]	141 / (64)
	SPC-BAT-150-1K-3	1	3	622.3	306.3	200.9	146.4		193 / (88)
	SPC-BAT-150-1K-2	2	4	852.2	419.8	274.7	200.2	17.44" x 19.00" x 22.94" (10U) [443.0 x 482.6 x 582.5]	282 / (128)
	SPC-BAT-150-1K-3	2	6	> 1200	655.3	428.3	311.3		386 / (176)
	SPC-BAT-150-1K-3	3	9	> 1200	1018.7	668.5	485.6	26.16" x 19.00" x 22.94" (15U) [664.5 x 482.6 x 582.5]	579 / (264)
	SPC-BAT-150-1K-3	4	12	> 1200	> 1200	914.8	666.1	34.88" x 19.00" x 22.94" (20U) [886.0 x 482.6 x 582.5]	772 / (352)
	SPC-BAT-150-1K-3	5	15	> 1200	> 1200	1163.3	849.8	43.60" x 19.00" x 22.94" (25U) [1107.5 x 482.6 x 582.5]	965 / (440)
	(3) HR1290W Batteries per string								
1250VA	SPC-BAT-90-1.5K-1	1	1	106.6	48.3	29.5	20.2	8.72" x 19.00" x 22.94"(5U) [221.5 x 482.6 x 582.5]	85 / (39)
	SPC-BAT-90-1.5K-2	1	2	240.6	112.8	70.6	49.2		130 / (59)
(3) HR12150W Batteries per string									
1250VA	SPC-BAT-150-1.5K-1	1	1	203.5	100.1	63.6	44	8.72" x 19.00" x 22.94"(5U) [221.5 x 482.6 x 582.5]	115 / (52)
	SPC-BAT-150-1.5K-1	2	2	433.8	214.2	140.5	101.7	17.44" x 19.00" x 22.94" (10U) [443.0 x 482.6 x 582.5]	230 / (104)
	SPC-BAT-150-1.5K-1	3	3	677.1	333.2	218.4	159.2	26.16" x 19.00" x 22.94" (15U) [664.5 x 482.6 x 582.5]	345 / (156)
	SPC-BAT-150-1.5K-2	1	2	433.8	214.2	140.5	101.7	8.72" x 19.00" x 22.94"(5U) [221.5 x 482.6 x 582.5]	192 / (87)
	SPC-BAT-150-1.5K-2	2	4	926.5	456.8	298.8	217.6	17.44" x 19.00" x 22.94" (10U) [443.0 x 482.6 x 582.5]	384 / (174)
	SPC-BAT-150-1.5K-2	3	6	> 1200	712.9	466.1	338.6	26.16" x 19.00" x 22.94" (15U) [664.5 x 482.6 x 582.5]	576 / (261)
	SPC-BAT-150-1.5K-2	4	8	> 1200	974.9	639.3	464.3	34.88" x 19.00" x 22.94" (20U) [886.0 x 482.6 x 582.5]	768 / (348)
	SPC-BAT-150-1.5K-2	5	10	> 1200	> 1200	815.9	593.4	43.60" x 19.00" x 22.94" (25U) [1107.5 x 482.6 x 582.5]	960 / (435)
(4) HR1290W Batteries per string									
1700VA	SPC-BAT-90-2K-1	1	1	104.1	47.1	28.8	19.7	8.72" x 19.00" x 22.94"(5U) [221.5 x 482.6 x 582.5]	100 / (45)
	SPC-BAT-90-2K-1	2	2	235.2	110.2	68.9	48	17.44" x 19.00" x 22.94" (10U) [443.0 x 482.6 x 582.5]	200 / (90)
	SPC-BAT-90-2K-2	1	2	235.2	110.2	68.9	48	8.72" x 19.00" x 22.94"(5U) [221.5 x 482.6 x 582.5]	160 / (73)
	SPC-BAT-90-2K-2	2	4	513.4	248.2	158.4	112.1	17.44" x 19.00" x 22.94" (10U) [443.0 x 482.6 x 582.5]	320 / (146)
(4) HR12150W Batteries per string									
1700VA	SPC-BAT-150-2K-1	1	1	199.2	97.8	62.1	42.9	8.72" x 19.00" x 22.94"(5U) [221.5 x 482.6 x 582.5]	141 / (64)
	SPC-BAT-150-2K-1	2	2	424.5	209.6	137.5	99.5	17.44" x 19.00" x 22.94" (10U) [443.0 x 482.6 x 582.5]	282 / (128)
	SPC-BAT-150-2K-1	3	3	662.6	326	213.8	155.8	26.16" x 19.00" x 22.94" (15U) [664.5 x 482.6 x 582.5]	423 / (192)
	SPC-BAT-150-2K-1	4	4	906.8	447	292.4	213	34.88" x 19.00" x 22.94" (20U) [886.0 x 482.6 x 582.5]	564 / (256)
	SPC-BAT-150-2K-1	5	5	1153.2	571.2	373.3	271.5	43.60" x 19.00" x 22.94" (25U) [1107.5 x 482.6 x 582.5]	705 / (320)
(6) HR1251W Batteries per string									
2500VA	SPC-BAT-51-3K-2	1	2	132.6	57.9	34.8	23.8	8.72" x 19.00" x 22.94"(5U) [221.5 x 482.6 x 582.5]	136 / (62)
	SPC-BAT-51-3K-2	2	4	304.4	140.6	86.1	59	17.44" x 19.00" x 22.94" (10U) [443.0 x 482.6 x 582.5]	272 / (124)
(6) HR12150W Batteries per string									
2500VA	SPC-BAT-150-3K-1	1	1	203.5	100.1	63.6	44	8.72" x 19.00" x 22.94"(5U) [221.5 x 482.6 x 582.5]	193 / (88)
	SPC-BAT-150-3K-1	2	2	433.8	214.2	140.5	101.7	17.44" x 19.00" x 22.94" (10U) [443.0 x 482.6 x 582.5]	386 / (176)
	SPC-BAT-150-3K-1	3	3	677.1	333.2	218.4	159.2	26.16" x 19.00" x 22.94" (15U) [664.5 x 482.6 x 582.5]	579 / (264)
	SPC-BAT-150-3K-1	4	4	926.5	456.8	298.8	217.6	34.88" x 19.00" x 22.94" (20U) [886.0 x 482.6 x 582.5]	772 / (352)
	SPC-BAT-150-3K-1	5	5	1177.9	583.8	381.5	277.5	43.60" x 19.00" x 22.94" (25U) [1107.5 x 482.6 x 582.5]	965 / (440)

- Note:
- Battery Times are based on new batteries +/- 5%.
 - Extended Battery Packs are Hot Swappable, not individual batteries.
 - Weight includes total number of all cabinets.
 - Consult Factory for longer Run Times.

*Always reference Spec Control Drawing (SCD) for the most current & accurate dimensions and weights



GET IN TOUCH

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www.orepowersolutions.com