

STACO ENERGY[®] PRODUCTS CO.

Staco V

Series 120/120VAC Universal Tower/Rack Mount
Standard 1000VA, 1500VA, 2000VA & 3000VA

XL Extended Models 900VA, 1250VA, 1700VA & 2500VA

On-line, Single Phase, Double Conversion UPS

The Staco V features a field-proven Digital Signal Processor (DSP) achieving high reliability, while providing protection from electrical power disturbances to the connected load. The convertible tower/rack design offers maximum flexibility, enabling UPS integration into a wide variety of environments.

Industry-leading functionality is standard and includes hot swappable battery, powerful internal charger, emergency shut-down and programmable receptacles. The Staco V is an ideal power protection solution for servers, networks, telecommunications, industrial equipment, and manufacturing processes. XL Models are for those critical applications that require extended battery backup times.

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 center servers, telecom applications, as well as for industrial applications.

Output Power Factor 0.9

- Staco V 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 Series V is designed in a 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 by shutting down the non-critical devices.

50/60 Hz Frequency Converter Mode

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

ECO and Advanced ECO Mode for Energy Saving

- It allows the UPS to operate in high efficiency up to 97% in energy-saving ECO mode. In this operation mode, load is supplied by the mains. In the event of a mains failure, the inverter takes over the load and provides supply continuity to the connected systems. The Series V even offers advanced ECO mode to allow UPS to operate at higher efficiency up to 98%.

Emergency Power Off Function (EPO)

- This feature can secure the personnel and equipment in case of fires or other emergencies.

Hot-Swappable Battery Design

- Ensures clean and uninterruptible power to protected equipment during battery replacement.





Applications

- n Broadcast
- n Processing Manufacturing (food/beverage, pharmaceutical, plastics, packaging)
- n Water and Waste Water Treatment
- n Hospitals/Medical
- n Education/Research Laboratories

On-Line, Single Phase UPS System

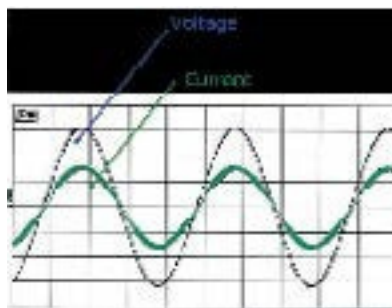
The Staco V represents the latest in single-phase technology at an affordable price. Its true on-line performance provides a constant clean, steady sine wave safeguarding the most sensitive equipment.

Double Conversion

The UPS provides clean AC power with voltage and frequency independent from the utility. On-line technology completely regenerates utility power to correct electrical disturbances in the mains.

High-Efficiency and Protection

PWM sine-wave topology yields excellent overall performance. The high crest factor of the inverter handles all high in-rush current loads without the need to upgrade the power rating.



Wide frequency and voltage windows of 40-70Hz and 55-150Vac (for 120Vac input), or 110-300Vac (for 230Vac input), are provided, which help to extend the life of the battery.

Near unity input power factor meets today's industry standard for energy savings and efficiency with low current harmonic pollution to the utility.

To protect the unit from overloading, the UPS will automatically switch to bypass mode in 30 seconds if loading is at 105%~120% of rated capacity.

It will automatically switch back to inverter mode once overload condition ceases. Selectable bypass input voltage tolerance (low/high sensitivity) prevents under or over voltage being

supplied to the loads while in bypass mode.

User Controls

An easy-to-read user-friendly LCD display provides real-time indication of all major system parameters and status, including load level, battery remaining, and fault signals for easy service.



Digital signal processing (DSP) also provides the UPS with powerful communication capability, which enhances the flexibility for easy remote control and monitoring.

Features

DC-start function ensures the start-up of UPS even during power outages.

Programmable receptacles offer the capability to load shed during any power interruption, while in battery power mode or during overload condition, via the use of special communication software provided, thus reserving backup power for priority loads.

Emergency shutdown control through EPO allows users to shutdown the UPS completely in an emergency to ensure a safe operating environment.

Communication software allows not only the control of the UPS and its smooth shutdown when utility fails, but also allows the user to:

- n Completely test the major operating functions of the UPS
- n Communicate via SNMP/Web/Network adapter
- n Access UPS functions via the Web
- n Alert users via SMS messages against specific events

Custom options slot allows further flexibility in network configuration. An internal WEB/SNMP card, USB card, and True Relay card provide isolated contacts for industrial and remote alarm panel application.

User-friendly Plug-and-Play design allows hassle-free installation. All units up to 3000VA are supplied with input cables and output receptacles as standard.

Innovative battery management circuit analyzes battery discharging status to adjust battery cut-off point and extend the batteries' life span.

Internal maintenance-free sealed VRLA batteries minimizes the need for frequent after-sales service. The hot swappable battery feature allows users to replace the batteries without the hazard of electric shock, while the UPS supplies power continuously to critical load applications.

Built-in Charger provides ability to re-charge internal battery to approximately 90% in four hours. Matching battery cabinets are available to extend the UPS runtime easily to several hours.

Optional extended runtime capability by simply connecting additional battery packs. Just plug in the battery connectors between the UPS and battery packs without the requirement for additional chargers. Extended run time battery packs are available for all models. Size, capacity, and estimated run times

are shown in the table below. Back-up time is for the battery pack used with the UPS internal batteries. Battery packs are external and hot swappable.

Optional Power Distribution Unit - SCV-ST provides a comprehensive feature set on its standard products usually found only on more expensive or custom products.



Three Year Warranty

Elec tronics:

A full **Three Year** parts with depot repair or replacement warranty is standard.

Batter y:

A full **One Year Warranty** on the Battery System ensures that your batteries are protected from system failure now and in the future. (*Warranty provided by battery manufacturer.*) Extended warranties, customized service plans and preventative maintenance are also available. *Please refer to our warranty statement for complete details.*

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

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

Model (Part Number)	VA/ Watts 1000VA / 900W	Internal Battery (Minutes)	Input 5-15P	Output Connection (4) 5-15R	*Dimensions H" x W" x D" / [mm]	*Wt. lbs. / (kg)
V1000RT120 (SCV-10001)					3.39" x 17.24" x 16.44" (2U) [86.2 x 438.0 x 417.5]	29 / (13)
V1500RT120 (SCV-15001)	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)
V2000RT120 (SCV-20001)	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)
V3000RT120 (SCV-30001)	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)
V1000RTXL120 (SCV-10001-LB)	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)
V1500RTXL120 (SCV-15001-LB)	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)
V2000RTXL120 (SCV-20001-LB)	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)
V3000RTXL120 (SCV-30001-LB)	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 (V1000EBC, V1500EBC, V2000EBC or V3000EBC)
XL Models: Maximum (5) External Battery Pack (V1000EBC, V1500EBC, V2000EBC or V3000EBC)

Note: 1. XL 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

Specification for 120/120VAC

MODEL		V1000RT120	V1000RTXL120	V1500RT120	V1500RTXL120	V2000RT120	V2000RTXL120	V3000RT120	V3000RTXL120
PART NUMBER		SCV-10001	SCV-10001-LB	SCV-15001	SCV-15001-LB	SCV-20001	SCV-20001-LB	SCV-30001	SCV-30001-LB
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 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

The Staco V Series Battery Run Time Charts

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

UPS Rating	Model (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	Inter nal	0	1/0	26.9	11.7	6.6	4		
	V1000EBC (SCV-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)
		0							
1500VA	Inter nal	0	1/0	26.9	11.7	6.6	4		
	V1500EBC (SCV-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)
		0							
2000VA	Inter nal	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)
	V2000EBC (SCV-BAT-2K)	0	1/0	26.9	11.7	6.6	4		
3000VA	Inter nal	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)
	V3000EBC (SCV-BAT-3K)								

Note: 1. ONLY (1) Standard Battery Pack can be used on the SCV-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 LB 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 Staco V, 120VAC, XL Models, Universal Rack/Tower 900VA, 1250VA, 1700VA & 2500VA

UPS Rating	Model (Part Number)	Quantity Cabinets	# Strings	25% Load	50% Load	75% Load	100% Load	*Dimensions H" x W" x D" / [mm]	*Wt. lbs. / (kg)
900VA	Inter nal	0	0	0	0	0	0		
	V1000EBC (SCV-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	Inter nal	0	0	0	0	0	0		
	V1500EBC (SCV-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	Inter nal	0	0	0	0	0	0		
	V2000EBC (SCV-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	Inter nal	0	0	0	0	0	0		
	V3000EBC (SCV-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

The Staco V Series Battery Run Time Charts (Continued)

Extended Battery Run Time Chart - Minutes Used with Staco V, 120VAC, XL 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	SCV-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)
	1 SCV-BAT-90-1K-2	1	2	220.2	102.9	64.2	44.7		100 / (45)
	1K-2 SCV-BAT-90-1K-3	1	3	349.5	166.4	105.1	73.9		130 / (59)
	SCV-BAT-90-1K-3	1	4	481.9	232.4	148.1	104.7		160 / (73)
	SCV-BAT-90-1K-4	1	5	616.2	300	192.3	136.6		190 / (86)
	SCV-BAT-90-1K-5	2	8	1030.1	507.7	329.4	236.4	320 / (146)	
	5 SCV-BAT-90-1K-4	2	10	> 1200	648.8	423.2	305.1	17.44" x 19.00" x 22.94" (10U) [443.0 x 482.6 x 582.5]	380 / (172)
(2) HR12150W Batteries per string									
900VA	SCV-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)
	SCV-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)
	SCV-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)
	SCV-BAT-150-1K-3	1	3	622.3	306.3	200.9	146.4	17.44" x 19.00" x 22.94" (10U) [443.0 x 482.6 x 582.5]	193 / (88)
	SCV-BAT-150-1K-2	2	4	852.2	419.8	274.7	200.2	26.16" x 19.00" x 22.94" (15U) [664.5 x 482.6 x 582.5]	282 / (128)
	SCV-BAT-150-1K-3	2	6	> 1200	655.3	428.3	311.3	17.44" x 19.00" x 22.94" (10U) [443.0 x 482.6 x 582.5]	386 / (176)
	SCV-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)
	SCV-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)
	SCV-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	SCV-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)
	SCV-BAT-90-1.5K-2	1	2	240.6	112.8	70.6	49.2		130 / (59)
(3) HR12150W Batteries per string									
1250VA	SCV-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)
	SCV-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)
	SCV-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)
	SCV-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)
	SCV-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)
	SCV-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)
	SCV-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)
	SCV-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	SCV-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)
	SCV-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)
	SCV-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)
	SCV-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	SCV-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)
	SCV-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)
	SCV-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)
	SCV-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)
	SCV-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	SCV-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)
	SCV-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	SCV-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)
	SCV-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)
	SCV-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)
	SCV-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)
	SCV-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:
1. Battery Times are based on new batteries +/- 5%.
 2. Extended Battery Packs are Hot Swappable, not individual batteries.
 3. Weight includes total number of all cabinets.
 4. Consult Factory for longer Run Times.

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

Staco Service

Field Service Program

Staco specializes in providing choice and flexibility by developing tailored solutions for preventive and remedial maintenance services, as well as emergency repairs for all of our products. Staco Service is built upon a nationwide network of highly trained and motivated customer support engineers and technicians who can provide professional services and care throughout the life of your equipment.

- n **Start-Ups**
- n **Preventive Maintenance**
- n **Spare Parts**
- n **Battery Analysis/Refresh/Replacement**
- n **On-Site Training**
- n **Time & Material Services**
- n **ServiStar: Providing security beyond our standard warranty**

Why Staco Energy Products?

Because we are your tailored power solutions provider!

Unique application design demands, harsh environment concerns, the need to meet non-standard physical space requirements—providing the “not so usual” is what we do best. From leading edge uninterruptible power supplies, power conditioners, power factor and harmonic correction equipment, to the world’s most stable voltage control systems, we have the technology you need to protect and manage your business, and the knowledge to make it work for you.



Since 1937, customers worldwide have relied on Staco Energy as their tailored solutions provider, to solve a wide range of electrical power problems. Headquartered in Dayton, Ohio, Staco Energy Products is a wholly owned subsidiary of Components Corporation of America, located in Dallas, Texas.



Contact Us:
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For more information go to:
www.stacoenergy.com

Staco V Series 230/230VAC

Standard & LB, Universal Tower/Rack Mount

1000VA, 1500VA, 2000VA & 3000VA

On-line, Single Phase, Double Conversion UPS

The Staco V features a field-proven Digital Signal Processor (DSP) achieving high reliability, while providing protection from electrical power disturbances to the connected load. The convertible tower/rack design offers maximum flexibility, enabling UPS integration into a wide variety of environments.

Industry-leading functionality is standard and includes hot swappable battery, powerful internal charger, emergency shut-down and programmable receptacles. The Staco V is an ideal power protection solution for servers, networks, telecommunications, industrial equipment, and manufacturing processes. LB Models are for those critical applications that require extended battery backup times.

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 center servers, telecom applications, as well as for industrial applications.



Output Power Factor 0.9

- StacoSeries V 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 Series V is designed in a true universal-mount case. It can be easily installed as a free-standing tower or in a 19-inch rack-mount 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 by shutting down the non-critical devices.

50/60 Hz Frequency Converter Mode

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

ECO and Advanced ECO Mode for Energy Saving

- It allows the UPS to operate in high efficiency up to 97% in energy-saving ECO mode. In this operation mode, load is supplied by the mains. In the event of a mains failure, the inverter takes over the load and provides supply continuity to the connected systems. The Series V offers advanced ECO mode to allow UPS to operate at higher efficiency up to 98%.

Emergency Power Off Function (EPO)

- This feature can secure the personnel and equipment in case of fires or other emergencies.

Hot-Swappable Battery Design

- Ensures clean and uninterruptible power to protected equipment during battery replacement.



Applications

- n Broadcast
- n Processing Manufacturing (food/beverage, pharmaceutical, plastics, packaging)
- n Water and Waste Water Treatment
- n Hospitals/Medical
- n Education/Research Laboratories

On-Line, Single Phase UPS System

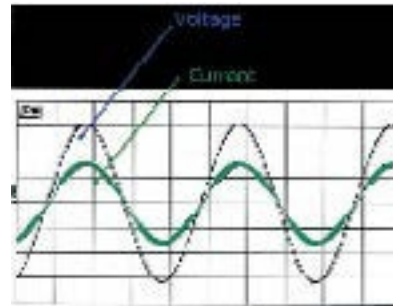
The Staco V represents the latest in single-phase technology at an affordable price. Its true on-line performance provides a constant clean, steady sine wave safeguarding the most sensitive equipment.

Double Conversion

The UPS provides clean AC power with voltage and frequency independent from the utility. On-line technology completely regenerates utility power to correct electrical disturbances in the mains.

High-Efficiency and Protection

PWM sine-wave topology yields excellent overall performance. The high crest factor of the inverter handles all high in-rush current loads without the need to upgrade the power rating.



Wide frequency and voltage windows of 40-70Hz and 55-150Vac (for 120Vac input), or 110-300Vac (for 230Vac input), are provided, which help to extend the life of the battery.

Near unity input power factor meets today's industry standard for energy savings and efficiency with low current harmonic pollution to the utility.

To protect the unit from overloading, the UPS will automatically switch to bypass mode in 30 seconds if loading is at 105%~120% of rated capacity.

It will automatically switch back to inverter mode once overload condition ceases. Selectable bypass input voltage tolerance (low/high sensitivity) prevents under or over voltage being

supplied to the loads while in bypass mode.

User Controls

An easy-to-read user-friendly LCD display provides real-time indication of all major system parameters and status, including load level, battery remaining, and fault signals for easy service.



Digital signal processing (DSP) also provides the UPS with powerful communication capability, which enhances the flexibility for easy remote control and monitoring.

Features

DC-start function ensures the start-up of UPS even during power outages.

Programmable receptacles offer the capability to load shed during any power interruption, while in battery power mode or during overload condition, via the use of special communication software provided, thus reserving backup power for priority loads.

Emergency shutdown control through EPO allows users to shutdown the UPS completely in an emergency to ensure a safe operating environment.

Communication software allows not only the control of the UPS and its smooth shutdown when utility fails, but also allows the user to:

- n Completely test the major operating functions of the UPS
- n Communicate via SNMP/Web/Network adapter
- n Access UPS functions via the Web
- n Alert users via SMS messages against specific events

Custom options slot allows further flexibility in network configuration.

An internal WEB/SNMP card, USB card, and True Relay card provide isolated contacts for industrial and remote alarm panel application.

User-friendly Plug-and-Play design

allows hassle-free installation. All units up to 3kVA are supplied with input cables and output receptacles as standard.

Innovative battery management circuit analyzes battery discharging status to adjust battery cut-off point and extend the batteries' life span.

Internal maintenance-free sealed VRLA batteries

minimizes the need for frequent after-sales service. The hot swappable battery feature allows users to replace the batteries without the hazard of electric shock, while the UPS supplies power continuously to critical load applications.

Built-in Charger

provides ability to re-charge internal battery to approximately 90% in four hours. Matching battery cabinets are available to extend the UPS runtime easily to several hours.

Optional extended runtime capability

by simply connecting additional battery packs. Just plug in the battery connectors between the UPS and battery packs without the requirement for additional chargers.

Extended run time battery packs are available for all models.

Size, capacity, and estimated run times

are shown in the table below. Back-up time is for the battery pack used with the UPS internal batteries. Battery packs are external and hot swappable.

Three Year Warranty

Elec tronics:

A full **Three Year** parts with depot repair or replacement warranty is standard.

Battery:

A full **One Year Warranty** on the Battery System ensures that your batteries are protected from system failure now and in the future. *(Warranty provided by battery manufacturer.)*

Extended warranties, customized service plans and preventative maintenance are also available.

Please refer to our warranty statement for complete details.

Standard Run Time Models

UPS On-line, Double-Conversion .9pf – LCD Panel, USB and RS-232 Standard

Model Number	VA/ Watts	Internal Battery (Minutes)	Input Cord	Output Connections	*Dimensions H" x W" x D" / [mm]	*Wt. lbs. / (kg)
Voltage: 230/230 VAC – 50/60 Hz – 1000VA, 1500VA, 2000VA & 3000VA CE, 3000VA CE/UL1778/cUL						
SCV-10002	1000VA/900W	4	(10A) IEC320-C14	(8) IEC60320-C13	3.39" x 17.24" x 16.44" (2U) [86.2 x 438.0 x 417.5]	29 / (13)
SCV-15002	1500VA/1350W	4	(10A) IEC320-C14	(8) IEC60320-C13	3.39" x 17.24" x 20.38" (2U) [86.2 x 438.0 x 517.5]	42 / (19)
SCV-20002	2000VA/1800W	4	(16A) IEC320-C20	(8) IEC60320-C13	3.39" x 17.24" x 20.38" (2U) [86.2 x 438.0 x 517.5]	65 / (29)
SCV-30002	3000VA/2700W	4	(16A) IEC320-C20	(8) IEC60320-C13	3.39" x 17.24" x 25.10" (2U) [86.2 x 438.0 x 637.5]	
Voltage: 230/230 VAC – 50/60 Hz – 1000VA, 1500VA, 2000VA & 3000VA-LB CE, 3000VA CE/UL1778/cUL						
SCV-10002-LB	1000VA/900W	0	(10A) IEC320-C14	(8) IEC60320-C13	3.39" x 17.24" x 16.44" (2U) [86.2 x 438.0 x 417.5]	29 / (13)
SCV-15002-LB	1500VA/1350W	0	(10A) IEC320-C14	(8) IEC60320-C13	3.39" x 17.24" x 20.38" (2U) [86.2 x 438.0 x 517.5]	42 / (19)
SCV-20002-LB	2000VA/1800W	0	(16A) IEC320-C20	(8) IEC60320-C13	3.39" x 17.24" x 20.38" (2U) [86.2 x 438.0 x 517.5]	65 / (29)
SCV-30002-LB	3000VA/2700W	0	(16A) IEC320-C20	(6) IEC60320-C13 (1) IEC60320-C19	3.39" x 17.24" x 25.10" (2U) [86.2 x 438.0 x 637.5]	

Standard SCV-X0002: maximum (1) External Battery Pack (SCV-BAT-1K, SCV-BAT-1.5K, SCV-BAT-2K or SCV-BAT-3K)

LB Models: maximum (5) External Battery Pack (SCV-BAT-1K, SCV-BAT-1.5K, SCV-BAT-2K or SCV-BAT-3K)

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

Specification for 230/230VAC

Model (SCV)		10002	10002-LB	15002	15002-LB	20002	20002-LB	30002	30002-LB
Capacity VA/ Watts		1000 VA / 900 W		1500 VA / 1350 W		2000 VA / 1800 W		3000 VA / 2700 W	
INPUT									
Voltage Range	Rated Volts	220-240 VAC							
	Low Transfer	160 VAC/140 VAC/120 VAC/110 VAC ± 5 %							
	Re-Transfer	(based on load percentage 100%-80% / 80%-70% / 70%-60% / 60%-0)							
	High Transfer	170 VAC / 150 VAC / 130 VAC ± 5 %							
	Re-Transfer	290 VAC ± 5 %							
		40 Hz ~ 70 Hz							
		>0.99 @nominal voltage							
Frequency Range									
Power Factor		—							
OUTPUT									
Output Voltage		200/208/220/230/240 VAC							
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% THD (Linear load)							
Transfer Time	AC to DC	6% max (battery mode before shutdown)							
	Inv. to Bypass	Zero							
		4 ms (Typical)							
Waveform (Battery Mode)		Pure Sinewave							
EFFICIENCY									
AC Mode		87%				88%		88%	
Battery Mode		85%				86%		85%	
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
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 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 25.10" (2U) [86.2 x 438.0 x 637.5]	
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 25.10" (2U) [438.0 x 86.2 x 637.5]	
Net Weight lbs. / (kg)		29 / (13)		42 / (19)		47 / (21)		65 / (29)	
		20 / (9)		26 / (12)		27 / (12)		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		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/CE/cUL	CE	UL1778/CE/cUL	CE	UL1778/CE/cUL	CE	UL1778/CE/cUL	UL1778/CE/cUL

* Derate capacity to 80% when the output voltage is adjusted to 200VAC/208VAC.

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

The Staco V Series Battery Run Time Charts



Standard External Battery Run Time Chart - Minutes

Used with StacoV Series, 230VAC, Universal Tower/Rack 1000VA, 1500VA, 2000VA & 3000VA

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

Note: 1. ONLY (1) Standard Battery Pack can be used on the SCV-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 LB 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



Rack Model Shown

Standard External Battery Run Time Chart - Minutes

Used with StacoV, 230VAC, LB Models, Universal Rack/Tower 1000VA, 1500VA, 2000VA & 3000VA

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)
1000VA	Internal	0	0	0	0	0	0	3.39" x 17.24" x 17.04" (2U) [86.2 x 438.0 x 432.7]	38 / (17)
	SCV-BAT-1K	1	2	63.1	28.5	17.5	11.9		
		2	4	146.1	66.8	41.6	29		
1500VA	Internal	0	0	0	0	0	0	3.39" x 17.24" x 20.97" (2U) [86.2 x 438.0 x 532.7]	55 / (25)
	SCV-BAT-1.5K	1	2	63.1	28.5	17.5	11.9		
		2	4	146.1	66.8	41.6	29		
2000VA	Internal	0	0	0	0	0	0	3.39" x 17.24" x 20.97" (2U) [86.2 x 438.0 x 532.7]	64 / (29)
	SCV-BAT-2K	1	2	63.1	28.5	17.5	11.9		
		2	4	146.1	66.8	41.6	29		
3000VA	Internal	0	0	0	0	0	0	3.39" x 17.24" x 25.70" (2U) [86.2 x 438.0 x 652.7]	91 / (41)
	SCV-BAT-3K	1	2	63.1	28.5	17.5	11.9		
		2	4	146.1	66.8	41.6	29		

Note: Weights include the total of all cabinets

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

▢ Tower/Rack Mount
Convertible Design

▢ Compact and Lightweight

▢ Advanced Digital Control
Technology

▢ Wide Input Voltage
and Frequency Ranges

▢ Hot Swappable Battery

▢ Extended Run Time Capability

The Staco V Series Battery Run Time Charts (Continued)

External Extended Battery Pack Run Time Chart - Minutes

For Staco V Series, 230VAC, LB Models Universal Tower/Rack Mount Models, 1000VA, 1500VA, 2000VA & 3000VA

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									
1000VA	SCV-BAT-90-1K-1	1	1	85.6	38.4	23.3	15.8	8.72" x 19.00" x 22.94"(5U) [221.5 x 482.6 x 582.5]	69 / (31)
	1 SCV-BAT-90-1K-2	1	2	194.9	90.6	56.3	39.1		100 / (45)
	SCV-BAT-90-1K-3	1	3	310.3	147	92.6	64.9		130 / (59)
	1 SCV-BAT-90-1K-4	1	4	428.7	205.8	130.7	92.2		160 / (73)
	SCV-BAT-90-1K-5	1	5	548.9	266.1	170	120.6		190 / (86)
	2 SCV-BAT-90-1K-6	2	8	917.5	451.8	292.4	209.4	17.44" x 19.00" x 22.94" (10U) [443.0 x 482.6 x 582.5]	320 / (146)
	2 SCV-BAT-90-1K-7	2	10	1174.6	578	376.1	270.6		380 / (172)
(2) HR12150W Batteries per string									
1000VA	SCV-BAT-150-1K-1	1	1	166.9	81.2	50.7	34.5	8.72" x 19.00" x 22.94"(5U) [221.5 x 482.6 x 582.5]	90 / (41)
	SCV-BAT-150-1K-2	2	2	355.1	175.7	114.9	82.6	17.44" x 19.00" x 22.94" (10U) [443.0 x 482.6 x 582.5]	180 / (82)
	SCV-BAT-150-1K-3	1	2	355.1	175.7	114.9	82.6	8.72" x 19.00" x 22.94"(5U) [221.5 x 482.6 x 582.5]	141 / (64)
	SCV-BAT-150-1K-4	1	3	554.4	273	179.2	130.4	26.16" x 19.00" x 22.94" (15U) [664.5 x 482.6 x 582.5]	193 / (88)
	SCV-BAT-150-1K-5	2	4	759.8	373.9	244.9	178.5	34.88" x 19.00" x 22.94" (20U) [886.0 x 482.6 x 582.5]	282 / (128)
	SCV-BAT-150-1K-6	2	6	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]	386 / (176)
	SCV-BAT-150-1K-7	3	9	> 1200	909.1	595.6	432.5	26.16" x 19.00" x 22.94" (15U) [664.5 x 482.6 x 582.5]	579 / (264)
	SCV-BAT-150-1K-8	4	12	> 1200	> 1200	815.9	593.4	34.88" x 19.00" x 22.94" (20U) [886.0 x 482.6 x 582.5]	772 / (352)
	SCV-BAT-150-1K-9	5	15	> 1200	> 1200	1038.9	757.6	43.60" x 19.00" x 22.94" (25U) [1107.5 x 482.6 x 582.5]	965 / (440)
(3) HR1290W Batteries per string									
1500VA	SCV-BAT-90-1.5K-1	1	1	85.6	38.4	23.3	15.8	8.72" x 19.00" x 22.94"(5U) [221.5 x 482.6 x 582.5]	85 / (39)
	SCV-BAT-90-1.5K-2	1	2	194.9	90.6	56.3	39.1		130 / (59)
(3) HR12150W Batteries per string									
1500VA	SCV-BAT-150-1.5K-1	1	1	166.9	81.2	50.7	34.5	8.72" x 19.00" x 22.94"(5U) [221.5 x 482.6 x 582.5]	115 / (52)
	SCV-BAT-150-1.5K-2	1	2	355.1	175.7	114.9	82.6	17.44" x 19.00" x 22.94" (10U) [443.0 x 482.6 x 582.5]	192 / (87)
	2 SCV-BAT-150-1.5K-3	2	2	355.1	175.7	114.9	82.6	26.16" x 19.00" x 22.94" (15U) [664.5 x 482.6 x 582.5]	230 / (104)
	1.5K-1	3	3	554.4	273	179.2	130.4	34.88" x 19.00" x 22.94" (20U) [886.0 x 482.6 x 582.5]	345 / (156)
	SCV-BAT-150-1.5K-4	2	4	759.8	373.9	244.9	178.5	43.60" x 19.00" x 22.94" (25U) [1107.5 x 482.6 x 582.5]	384 / (174)
	1	3	6	1177.9	583.8	381.5	277.5	26.16" x 19.00" x 22.94" (15U) [664.5 x 482.6 x 582.5]	576 / (261)
	SCV-BAT-150-1.5K-5	4	8	> 1200	799.9	523.3	380.1	34.88" x 19.00" x 22.94" (20U) [886.0 x 482.6 x 582.5]	768 / (348)
	2	5	10	> 1200	1018.7	668.5	485.6	43.60" x 19.00" x 22.94" (25U) [1107.5 x 482.6 x 582.5]	960 / (435)
(4) HR1290 Batteries per string									
2000VA	SCV-BAT-90-2K-1	1	1	85.6	38.4	23.3	15.8	8.72" x 19.00" x 22.94"(5U) [221.5 x 482.6 x 582.5]	100 / (45)
	SCV-BAT-90-2K-2	1	2	194.9	90.6	56.3	39.1	17.44" x 19.00" x 22.94" (10U) [443.0 x 482.6 x 582.5]	160 / (73)
	SCV-BAT-90-2K-3	2	2	194.9	90.6	56.3	39.1	17.44" x 19.00" x 22.94" (10U) [443.0 x 482.6 x 582.5]	200 / (90)
	2 SCV-BAT-90-2K-4	2	4	428.7	205.8	130.7	92.2		320 / (146)
(4) HR12150W Batteries per string									
2000VA	SCV-BAT-150-2K-1	1	1	166.9	81.2	50.7	34.5	8.72" x 19.00" x 22.94"(5U) [221.5 x 482.6 x 582.5]	141 / (64)
	SCV-BAT-150-2K-2	2	2	355.1	175.7	114.9	82.6	17.44" x 19.00" x 22.94" (10U) [443.0 x 482.6 x 582.5]	282 / (128)
	SCV-BAT-150-2K-3	3	3	554.4	273	179.2	130.4	26.16" x 19.00" x 22.94" (15U) [664.5 x 482.6 x 582.5]	423 / (192)
	SCV-BAT-150-2K-4	4	4	759.8	373.9	244.9	178.5	34.88" x 19.00" x 22.94" (20U) [886.0 x 482.6 x 582.5]	564 / (256)
	SCV-BAT-150-2K-5	5	5	968.3	477.8	312.4	227.5	43.60" x 19.00" x 22.94" (25U) [1107.5 x 482.6 x 582.5]	705 / (320)
(6) HR1251W Batteries per string									
3000VA	SCV-BAT-51-3K-2	1	2	105.4	45.6	27.4	18.7	8.72" x 19.00" x 22.94"(5U) [221.5 x 482.6 x 582.5]	136 / (62)
	SCV-BAT-51-3K-2	2	4	246.5	111.9	68	46.5	17.44" x 19.00" x 22.94" (10U) [443.0 x 482.6 x 582.5]	272 / (124)
(6) HR12150W Batteries per string									
3000VA	SCV-BAT-150-3K-1	1	1	166.9	81.2	50.7	34.5	8.72" x 19.00" x 22.94"(5U) [221.5 x 482.6 x 582.5]	193 / (88)
	SCV-BAT-150-3K-2	2	2	355.1	175.7	114.9	82.6	17.44" x 19.00" x 22.94" (10U) [443.0 x 482.6 x 582.5]	386 / (176)
	SCV-BAT-150-3K-3	3	3	554.4	273	179.2	130.4	26.16" x 19.00" x 22.94" (15U) [664.5 x 482.6 x 582.5]	579 / (264)
	SCV-BAT-150-3K-4	4	4	759.8	373.9	244.9	178.5	34.88" x 19.00" x 22.94" (20U) [886.0 x 482.6 x 582.5]	772 / (352)
	SCV-BAT-150-3K-5	5	5	968.3	477.8	312.4	227.5	43.60" x 19.00" x 22.94" (25U) [1107.5 x 482.6 x 582.5]	965 / (440)

Note: 1. Battery Times are based on new batteries +/- 5%.
2. Extended Battery Packs are Hot Swappable, not individual batteries.
3. Weight includes total number of all cabinets.
4. Consult Factory for longer Run Times.

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

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