

S taco 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,

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

ⁿ 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)

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

Hot-Swappable Battery Design

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



Applications

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

On-Line, Single Phase UPS System

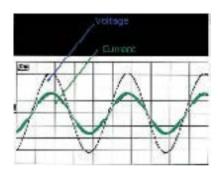
The Staco V represents the latest in single-phase technology at an affordable price. Its true on-line performance provides a constant clean, steady sine wave safeguarding the most sensitive equipment.

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. Backup 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

Model (Part Number)	VA/ 1000 Watts00W	Internal Battery (Minutes)	USB an Input 5-15P	d RS-232 Stan Output ငြည္နာက္ <u>ခ</u> င္နေနရက	*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 &	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)

e: 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

PART NUN	/BER	V1000RT120 SCV-10001	V1000RTXL120 SCV-10001-LB	V1500RT120 SCV-15001	V1500RTXL120 SCV-15001-LB	V2000RT120 SCV-20001	V2000RTXL120 SCV-20001-LB	V3000RT120 SCV-30001	V3000RTXL120 SCV-30001-LB				
	VA / Watts	1000 VA	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		900 W	810W	1350 W	1125 W	1800 W	1530 W	2700 W	2250 W				
	Rated Volts					.C-120VAC							
	Low Transfer			Low (based on load	Voltage 80 VAC/70 d percentage 100%-) VAC/60 VAC/55 \ -80% / 80%-70% /	VAC ± 5 % 70%-60% / 60%-0)						
Capacity	Re-Transfer				ge Re-Transfer 85 V								
	High Transfer					= 150 VAC ± 5 %	10,00 1,10 2 0 70						
	Re-Transfer				High Voltage Re-Ti		5 %						
	Donne				0 0	Iz/ 60Hz	5 /6						
Power Fa	y Range	>0.99 @nominal voltage											
OUTPUT						ommar voltage							
					100*/110*	(4.4.5*/4.00\/.4.0							
Output Vo						/115*/120VAC							
	ge Regulation					± 1%							
Frequenc -				47	′ ~ 53 Hz or 57 ~ 63								
Frequenc					50Hz ± 0.5% or 60	•	lode)						
	rest Ratio (CF)					(max.)							
Harmonic (THDU)	Distortion				≤ 2% (L 8% max (Battery m	inear load) node before shut c	lown)						
Transfer	AC to DC					Zero							
Time	Inv. to Bypass					(Typical)							
	n (Battery Mode)					Sinewave							
EFFICIEN	, ,												
AC Mode			86% (typica	I), 88% (peak)			88% (typical	ı, 90% (peak)					
Battery M				l), 86% (peak)				, 88% (peak)					
	Y (NON-LB MODE	LS)	00 /8 (typica), 00 % (peak)			00 /8 (typical	, 00 % (peak)					
	•	(2) 12V/9Ah	No Internal	(3) 12V/9Ah	No Internal	(4) 12V/9Ah	No Internal	(6) 12V/9Ah	No Internal				
Battery Ty		- ` <i>'</i>		. ,		. ,		. ,					
	me (Full Load)	4	0	4	0	4	0	4	0				
	echarge Time				recover to 90% cap	- ` `	• • • • • • • • • • • • • • • • • • • •						
	Current (max.)	1 Amp	6 Amp	1 Amp	6 Amp	1 Amp	6 Amp	1 Amp	6 Amp				
Charging		27.4 VI	DC ± 1%	41.1 V	DC ± 1%	54.7 VL	OC ± 1%	82.1VL	OC ± 1%				
LCD DISI	PLAY												
Status		Load level 0-25	%, 26-50%, 51-75	% and 76-100%,	Low Battery and Ba	attery Good, Progra	ammable Managen	ent Outlets workir	ng, UPS On-Line,				
					ss, Alarm Disabled I		·						
		· ·	nd Frequency, Out	iput Voltage and I	Frequency, Battery I	Backup Time (hou	rs/minutes), Fault I	ndicator, Battery V	oltage, Overload,				
Readings	<u> </u>	Input Voltage a											
Readings	i	Input Voltage at and/or UPS Out	tput is short circuit										
	elect Buttons	Input Voltage at and/or UPS Out	tput is short circuit		ode Settings, Navig	ation Key, On/Mut	e + Select Button to	switch to Bypass	Mode.				
Control/S		Input Voltage at and/or UPS Ou Off/Enter - Turn	tput is short circuit		ode Settings, Navig	ation Key, On/Mut	e + Select Button to	switch to Bypass	Mode.				
Control/S	elect Buttons	Input Voltage at and/or UPS Ou Off/Enter - Turn	ntput is short circuit on UPS Off, Switch I	LCD Message, Mo		,							
Control/S	elect Buttons	Input Voltage at and/or UPS Ou Off/Enter - Turn MS Low battery, Ov	tput is short circuit n UPS Off, Switch I	LCD Message, Mo	ode Settings, Navig	,							
Control/S AUDIBLE Warning I	elect Buttons	Input Voltage at and/or UPS Ou Off/Enter - Turn MS Low battery, Ov Bypass Freque	ntput is short circuit n UPS Off, Switch I verload, Battery No ncy Unstable	LCD Message, Mo		,							
Control/S AUDIBLE Warning I **PHYSIG	elect Buttons E & VISUAL ALAR Indicators CAL WEIGHT & D	Input Voltage at and/or UPS Ou Off/Enter - Turn MS Low battery, Ov Bypass Frequei	tput is short circuit to UPS Off, Switch I verload, Battery No. ncy Unstable x W" x D" / [mm]	ot Connected, Ove	ercharge, Site Wiring	g Fault, EPO Enat	oled, Over Tempera	uture, Charger Fail	ure, Battery Fault,				
Control/S AUDIBLE Warning I **PHYSIC Rack Mou	elect Buttons E & VISUAL ALAR Indicators CAL WEIGHT & D	Input Voltage at and/or UPS Ou Off/Enter - Turn MS Low battery, Ov Bypass Freque IMENSIONS H" x 17.2 [86.2 x 43]	verload, Battery No ncy Unstable x W" x D" / [mm]	ot Connected, Ove	ercharge, Site Wirin 4" x 20.38" (2U) 88.0 x 517.5]	g Fault, EPO Enat 3.39" x 17.24' [86.2 x 438	oled, Over Tempera " x 20.38" (2U) 3.0 x 517.5]	3.39" x 17.24 [86.2 x 43	ure, Battery Fault, " x 27.74" (2U) 8.0 x 704.6]				
AUDIBLE Warning I	elect Buttons E & VISUAL ALAR Indicators CAL WEIGHT & D	Input Voltage at and/or UPS Out Off/Enter - Turn MS Low battery, Ov Bypass Frequei IMENSIONS H" x 3 39" X 17.24" x 3.39	tput is short circuit to UPS Off, Switch I verload, Battery No. ncy Unstable x W" x D" / [mm]	3.39" x 17.24 [86.2 x 43 17.24" x 3.39	ercharge, Site Wiring	g Fault, EPO Enat 3.39" x 17.24' [86.2 x 43t 17.24" x 3.39'	oled, Over Tempera	3.39" x 17.24 [86.2 x 43: 17.24" x 3.39	ure, Battery Fault,				
Control/S AUDIBLE Warning I **PHYSI Rack Mou	elect Buttons E & VISUAL ALAR Indicators CAL WEIGHT & D unt	Input Voltage at and/or UPS Out Off/Enter - Turn MS Low battery, Ov Bypass Frequei IMENSIONS H" x 3 39" X 17.24" x 3.39	verload, Battery No nucy Unstable www. D" / [mm] 28.0 x 46.14.5] 0" x 16.44" (2U)	3.39" x 17.24 [86.2 x 43 17.24" x 3.39	ercharge, Site Wirin 4" × 20.38" (2U) 18.0 × 517.5] 9" × 20.38" (2U)	g Fault, EPO Enat 3.39" x 17.24' [86.2 x 43t 17.24" x 3.39'	" x 20.38" (2U) 3.0 x 517.5] " x 20.38" (2U)	3.39" x 17.24 [86.2 x 43: 17.24" x 3.39	" x 27.74" (2U) 8.0 x 704.6] " x 27.74" (2U)				
Control/S AUDIBLE Warning I **PHYSI Rack Mou Tower Net Weigl	elect Buttons E & VISUAL ALAR Indicators CAL WEIGHT & D unt ht lbs. / (kg)	Input Voltage at and/or UPS Ou Off/Enter - Turn MS Low battery, Ov Bypass Freque IMENSIONS H" x 172 [86.2 x 43] [438.0 x 86] 29 / (13)	verload, Battery No nucy Unstable x W" x D" / [mm] 28.0 x 417.5]	3.39" x 17.24 [86.2 x 43 17.24" x 3.39 [438.0 x 8	ercharge, Site Wirin 4" x 20.38" (2U) 18.0 x 517.5] 9" x 20.38" (2U) 16.2 x 517.5]	3.39" x 17.24' [86.2 x 438 17.24" x 3.39' [438.0 x 86	" x 20.38" (2U) 3.0 x 517.5] " x 20.38" (2U) 3.2 x 517.5]	3.39" x 17.24 [86.2 x 43: 17.24" x 3.39 [438.0 x 8	" x 27.74" (2U) 8.0 x 704.6] " x 27.74" (2U) 6.2 x 517.5]				
Control/S AUDIBLE Warning I **PHYSIC Rack Mou Tower Net Weigl ENVIRON	elect Buttons E & VISUAL ALAR Indicators CAL WEIGHT & D unt ht lbs. / (kg) NMENT (Electroni	Input Voltage at and/or UPS Ou Off/Enter - Turn MS Low battery, Ov Bypass Freque IMENSIONS H" x 172 [86.2 x 43] [438.0 x 86] 29 / (13)	verload, Battery No nucy Unstable x W" x D" / [mm] 28.0 x 417.5]	3.39" x 17.24 [86.2 x 43 17.24" x 3.39 [438.0 x 8	ercharge, Site Wirin, 4" x 20.38" (2U) 18.0 x 517.5] 2" x 20.38" (2U) 16.2 x 517.5] 26 / (12)	3.39" x 17.24' [86.2 x 438 17.24" x 3.39' [438.0 x 86	" x 20.38" (2U) 3.0 x 517.5] " x 20.38" (2U) 3.2 x 517.5]	3.39" x 17.24 [86.2 x 43: 17.24" x 3.39 [438.0 x 8	" x 27.74" (2U) 8.0 x 704.6] " x 27.74" (2U) 6.2 x 517.5]				
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Control/S AUDIBLE Warning I **PHYSIC Rack Mou Tower Net Weigl ENVIRON Operating Humidity Storage	elect Buttons E & VISUAL ALAR Indicators CAL WEIGHT & D unt ht lbs. / (kg) NMENT (Electronic	Input Voltage at and/or UPS Ou Off/Enter - Turn MS Low battery, Ov Bypass Freque IMENSIONS H" x 172 [86.2 x 43] [438.0 x 86] 29 / (13)	verload, Battery No nucy Unstable www.x D" / [mm] 24", X 16.14.5", (2U) 10", x 16.44" (2U) 10.24 (2U)	3.39" x 17.24 [86.2 x 43 17.24" x 3.39 [438.0 x 8	ercharge, Site Wiring 4" × 20.38" (2U) 18.0 × 517.5] 2" × 20.38" (2U) 16.2 × 517.5] 26 / (12) 32°F (0°C) 20-90 % RH 104°F (40°C) BATT	g Fault, EPO Enate 3.39" x 17.24' [86.2 x 43' 17.24" x 3.39' [438.0 x 86' 47 / (21) to 104°F (40°C) (non-condensing)	" x 20.38" (2U) 3.0 x 517.5] " x 20.38" (2U) 3.2 x 517.5] 28 / (13)	3.39" x 17.24 [86.2 x 43: 17.24" x 3.39 [438.0 x 8: 65 / (29)	" x 27.74" (2U) 8.0 x 704.6] " x 27.74" (2U) 6.2 x 517.5]				
Control/S AUDIBLE Warning I ***PHYSIC Rack Mou Tower Net Weigl ENVIRON Operating Humidity Storage Noise Lev	elect Buttons E & VISUAL ALAR Indicators CAL WEIGHT & D unt ht lbs. / (kg) NMENT (Electronication)	Input Voltage at and/or UPS Out Off/Enter - Turn MS Low battery, Over Bypass Frequent IMENSIONS H" x 3 39" x 17.24" x 3.39 [438.0 x 8t 29 / (13) CS)	verload, Battery No nucy Unstable www.x D" / [mm] 24", X 16.14.5", (2U) 10", x 16.44" (2U) 10.24 (2U)	3.39" x 17.24 [86.2 x 43 17.24" x 3.39 [438.0 x 8	ercharge, Site Wiring 4" × 20.38" (2U) 18.0 × 517.5] 2" × 20.38" (2U) 16.2 × 517.5] 26 / (12) 32°F (0°C) 20-90 % RH 104°F (40°C) BATT	g Fault, EPO Enate 3.39" x 17.24' [86.2 x 438 17.24" x 3.39' [438.0 x 86 47 / (21) to 104°F (40°C) (non-condensing) ERIES (REFRES)	" x 20.38" (2U) 3.0 x 517.5] " x 20.38" (2U) 3.2 x 517.5] 28 / (13)	3.39" x 17.24 [86.2 x 43: 17.24" x 3.39 [438.0 x 8: 65 / (29)	" x 27.74" (2U) 8.0 x 704.6] " x 27.74" (2U) 6.2 x 517.5]				
Control/S AUDIBLE Warning I **PHYSIC Rack Mou Tower Net Weigl ENVIRON Operating Humidity Storage Noise Lev MANAGE	elect Buttons E & VISUAL ALAR Indicators CAL WEIGHT & D unt ht lbs. / (kg) WMENT (Electronic) /el	Input Voltage at and/or UPS Out Off/Enter - Turn MS Low battery, Over Bypass Frequent IMENSIONS H" x 3 39" x 17.24" x 3.39 [438.0 x 8t 29 / (13) CS)	verload, Battery No nucy Unstable www.x D" / [mm] 24", X 16.14.5", (2U) 10", x 16.44" (2U) 10.24 (2U)	3.39" x 17.24 [86.2 x 43 17.24" x 3.39 [438.0 x 8 42 / (19)	ercharge, Site Wiring 4" x 20.38" (2U) 188.0 x 517.5] 3" x 20.38" (2U) 16.2 x 517.5] 26 / (12) 32°F (0°C) 20-90 % RH 104°F (40°C) BATT Less than 5	3.39" x 17.24" [86.2 x 438] [438.0 x 86] 47 / (21) to 104°F (40°C) (non-condensing) ERIES (REFRESHODBA @ 1 Meter	"x 20.38" (2U) 3.0 x 517.5] "x 20.38" (2U) 3.2 x 517.5] 28 / (13)	3.39" x 17.24 [86.2 x 43] 17.24" x 3.39 [438.0 x 8] 65 / (29)	" x 27.74" (2U) 8.0 x 704.6] " x 27.74" (2U) 6.2 x 517.5]				
Control/S AUDIBLE Warning I **PHYSIC Rack Mou Tower Net Weigi ENVIRON Operating Humidity Storage Noise Lev MANAGE Smart RS	elect Buttons E & VISUAL ALAR Indicators CAL WEIGHT & D unt ht lbs. / (kg) NMENT (Electronic //el EMENT / COMMUN -232/USB	Input Voltage at and/or UPS Out Off/Enter - Turn MS Low battery, Over Bypass Frequent IMENSIONS H" x 3 39" x 17.24" x 3.39 [438.0 x 8t 29 / (13) CS)	verload, Battery No nucy Unstable www.x D" / [mm] 24", X 16.14.5", (2U) 10", x 16.44" (2U) 10.24", x 16.44" (2U)	3.39" x 17.24 [86.2 x 43 17.24" x 3.39 [438.0 x 8 42 / (19)	ercharge, Site Wiring 4" x 20.38" (2U) 18.0 x 517.5] 3" x 20.38" (2U) 16.2 x 517.5] 26 / (12) 32°F (0°C) 20-90 % RH 104°F (40°C) BATT Less than 50	3.39" x 17.24' [86.2 x 438 17.24" x 3.39' [438.0 x 86 47 / (21) to 104°F (40°C) (non-condensing) ERIES (REFRESHODBA @ 1 Meter	"x 20.38" (2U) 3.0 x 517.5] "x 20.38" (2U) 3.2 x 517.5] 28 / (13)	3.39" x 17.24 [86.2 x 43] 17.24" x 3.39 [438.0 x 8] 65 / (29)	" x 27.74" (2U) 8.0 x 704.6] " x 27.74" (2U) 6.2 x 517.5]				
Control/S AUDIBLE Warning I **PHYSIC Rack Mou Tower Net Weigi ENVIRON Operating Humidity Storage Noise Lev MANAGE Smart RS Optional S	elect Buttons E & VISUAL ALAR Indicators CAL WEIGHT & D unt ht lbs. / (kg) WMENT (Electronic) //el EMENT / COMMUNITY COMUNITY COMMUNITY COMMUNITY COMMUNITY COMUNITY COM	Input Voltage at and/or UPS Out Off/Enter - Turn MS Low battery, Over Bypass Frequent IMENSIONS H" x 3 39" x 17.24" x 3.39 [438.0 x 8t 29 / (13) CS)	verload, Battery No nucy Unstable www.x D" / [mm] 24", X 16.14.5", (2U) 10", x 16.44" (2U) 10.24", x 16.44" (2U)	3.39" x 17.24 [86.2 x 43 17.24" x 3.39 [438.0 x 8 42 / (19)	ercharge, Site Wiring 1" x 20.38" (2U) 18.0 x 517.5] 3" x 20.38" (2U) 16.2 x 517.5] 26 / (12) 32°F (0°C) 20-90 % RH 104°F (40°C) BATT Less than 50 andows 2000/2003/XI management from S	3.39" x 17.24" [86.2 x 438 17.24" x 3.39" [438.0 x 86 47 / (21) to 104°F (40°C) (non-condensing) ERIES (REFRESHODBA @ 1 Meter P/Vista/2008/7, Lir NMP manager and	"x 20.38" (2U) 3.0 x 517.5] "x 20.38" (2U) 3.2 x 517.5] 28 / (13) H Charge @ 3 monux, Unix, and MACd web browser	3.39" x 17.24 [86.2 x 43] 17.24" x 3.39 [438.0 x 8] 65 / (29)	" x 27.74" (2U) 8.0 x 704.6] " x 27.74" (2U) 6.2 x 517.5]				
Control/S AUDIBLE Warning I **PHYSIC Rack Mou Tower Net Weigi ENVIRON Operating Humidity Storage Noise Lev MANAGE Smart RS Optional I	elect Buttons E & VISUAL ALAR Indicators CAL WEIGHT & D unt ht lbs. / (kg) WMENT (Electronic electronic celectronic celectronic celectronic delectronic delectronic	Input Voltage at and/or UPS Out Off/Enter - Turn MS Low battery, Over Bypass Frequent IMENSIONS H" x 3 39" x 17.24" x 3.39 [438.0 x 8t 29 / (13) CS)	verload, Battery No nucy Unstable www.x D" / [mm] 24", X 16.14.5", (2U) 10", x 16.44" (2U) 10.24", x 16.44" (2U)	3.39" x 17.24 [86.2 x 43 17.24" x 3.39 [438.0 x 8 42 / (19)	1" × 20.38" (2U) 18.0 × 517.5] 1" × 20.38" (2U) 18.0 × 517.5] 26 / (12) 32°F (0°C) 20-90 % RH 104°F (40°C) BATT Less than 50 andows 2000/2003/XI management from S Communication	3.39" x 17.24' [86.2 x 438 17.24" x 3.39' [438.0 x 86 47 / (21) to 104°F (40°C) (non-condensing) ERIES (REFRESH 0dBA @ 1 Meter P/Vista/2008/7, Lir NMP manager and ons from MODBUS	"x 20.38" (2U) 3.0 x 517.5] "x 20.38" (2U) 3.2 x 517.5] 28 / (13) H Charge @ 3 monux, Unix, and MACd web browser	3.39" x 17.24 [86.2 x 43] 17.24" x 3.39 [438.0 x 8] 65 / (29)	" x 27.74" (2U) 8.0 x 704.6] " x 27.74" (2U) 6.2 x 517.5]				
Control/S AUDIBLE Warning I **PHYSIC Rack Mou Tower Net Weigi ENVIRON Operating Humidity Storage Noise Lev MANAGE Smart RS Optional I Optional I	elect Buttons E & VISUAL ALAR Indicators CAL WEIGHT & D unt ht lbs. / (kg) WMENT (Electronic EMENT / COMMUN -232/USB SNMP Card MODBUS Card AS400 Card	Input Voltage at and/or UPS Out Off/Enter - Turn MS Low battery, Over Bypass Frequent IMENSIONS H" x 3 39" x 17.24" x 3.39 [438.0 x 8t 29 / (13) CS)	verload, Battery No nucy Unstable www.x D" / [mm] 24", X 16.14.5", (2U) 10", x 16.44" (2U) 10.24", x 16.44" (2U)	3.39" x 17.24 [86.2 x 43 17.24" x 3.39 [438.0 x 8 42 / (19)	1" × 20.38" (2U) 18.0 × 517.5] 1" × 20.38" (2U) 18.0 × 517.5] 26 / (12) 32°F (0°C) 20-90 % RH 104°F (40°C) BATT Less than 50 andows 2000/2003/XI management from S Communication	3.39" x 17.24" [86.2 x 438 17.24" x 3.39" [438.0 x 86 47 / (21) to 104°F (40°C) (non-condensing) ERIES (REFRESHODBA @ 1 Meter P/Vista/2008/7, Lir NMP manager and	"x 20.38" (2U) 3.0 x 517.5] "x 20.38" (2U) 3.2 x 517.5] 28 / (13) H Charge @ 3 monux, Unix, and MACd web browser	3.39" x 17.24 [86.2 x 43] 17.24" x 3.39 [438.0 x 8] 65 / (29)	" x 27.74" (2U) 8.0 x 704.6] " x 27.74" (2U) 6.2 x 517.5]				
Control/S AUDIBLE Warning I **PHYSIC Rack Mou Tower Net Weigi ENVIRON Operating Humidity Storage Noise Lev MANAGE Smart RS Optional I	elect Buttons E & VISUAL ALAR Indicators CAL WEIGHT & D unt ht lbs. / (kg) WMENT (Electronic EMENT / COMMUN -232/USB SNMP Card MODBUS Card AS400 Card	Input Voltage at and/or UPS Out Off/Enter - Turn MS Low battery, Over Bypass Frequent IMENSIONS H" x 3 39" x 17.24" x 3.39 [438.0 x 8t 29 / (13) CS)	verload, Battery No nucy Unstable www.x D" / [mm] 24", X 16.14.5", (2U) 10", x 16.44" (2U) 10.24", x 16.44" (2U)	3.39" x 17.24 [86.2 x 43 17.24" x 3.39 [438.0 x 8 42 / (19)	1" × 20.38" (2U) 18.0 × 517.5] 1" × 20.38" (2U) 18.0 × 517.5] 26 / (12) 32°F (0°C) 20-90 % RH 104°F (40°C) BATT Less than 50 andows 2000/2003/XI management from S Communication	3.39" x 17.24' [86.2 x 438 17.24" x 3.39' [438.0 x 86 47 / (21) to 104°F (40°C) (non-condensing) ERIES (REFRESH 0dBA @ 1 Meter P/Vista/2008/7, Lir NMP manager and ons from MODBUS	"x 20.38" (2U) 3.0 x 517.5] "x 20.38" (2U) 3.2 x 517.5] 28 / (13) H Charge @ 3 monux, Unix, and MACd web browser	3.39" x 17.24 [86.2 x 43] 17.24" x 3.39 [438.0 x 8] 65 / (29)	" x 27.74" (2U) 8.0 x 704.6] " x 27.74" (2U) 6.2 x 517.5] 33 / (15)				

^{**}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)
I000VA	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)
1500VA	Inter nal	0	1/0	26.9	11.7	6.6	4		
1500 VA	V1500EBC (SCV-BAT-1.5K)	1	1/2	103.3	47	29.2	20.2	3.39" x 17.24" x 20.97" (2U)	55 / (25)
	,		1/0	26.9	11.7	6.6	4	[86.2 x 438.0 x 532.7]	
2000VA	Inter nal V2000EBC (SCV-BAT-2K)	1	1/2	103.3	47	29.2	20.2	3.39" x 17.24" x 20.97" (2U)	64 / (29)
	(SCV-BAT-2K)	0	1/0	26.9	11.7	6.6	4	[86.2 x 438.0 x 532.7]	047 (23)
3000VA	Inter nal	1	1/2	103.3	47	29.2	20.2	[00.2 x 100.0 x 002.7]	
	V3000EBC (SCV-BAT-3K)		.,_					3.39" x 17.24" x 25.70" (2U)	91 / (41)
	1							[86.2 x 438.0 x 652.7]	

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.

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)
	(30V-DAT-1.5K)	2	4	181.8	83.4	52.1	36.4	[00.2 x 430.0 x 332.7]	110 / (50)
1700VA	Inter nal	0	0	0	0	0	0		
	V2000EBC	1	2	76.9	34.9	21.5	14.8	3.39" x 17.24" x 20.97" (2U)	64 / (29)
	(SCV-BAT-2K)	2	4	177.5	81.5	50.8	35.5	[86.2 x 438.0 x 532.7] ´	128 / (58)
2500VA	Inter nal	00	0	0	0	0	0		
2000171	V3000EBC	1	2	78.8	35.7	22	15.2	3.39" x 17.24" x 25.70" (2U)	91 / (41)
	(SČV-BĀT-3K)	2	4	181.8	83.4	52.1	36.4	[86.2 x 438.0 x 652.7]	182 / (82)

Note: Weights include the total of all cabinets

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

^{*}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) 69 / (31)
	Batteries per string SCV-BAT-90-1K-	1 1	1	97.2	43.8	26.7	18.2		100 / (45)
UUVA	1 SCV-BAT-90-	1 1	2	220.2	102.9	64.2	44.7		130 / (59)
	1K-2 SCV-BAT-	i	3	349.5	166.4	105.1	73.9	8.72" x 19.00" x 22.94"(5U)	160 / (73)
	90-1K-3 SCV-	1 i	4	481.9	232.4	148.1	104.7	[221.5 x 482.6 x 582.5] ´	190 / (86)
	BAT-90-1K-4	1 1	- 5	616.2	300	192.3	136.6		320 / (146
	SCV-BAT-90-1K-	2	8	1030.1	507.7	329.4	236.4	47 441 40 001 00 041 (4011)	380 / (172
	5 SCV-BAT-90-	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]	
	1K-4 SCV-BAT-							[443.0 X 402.0 X 302.3]	
,	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)	180 / (82)
	SCV-BAT-150-1K-2							[443.0 x 482.6 x 582.5]	
	SCV-BAT-150-1K-2	1 1	2	398.6 622.3	197 306.3	129.1 200.9	93.2 146.4	8.72" x 19.00" x 22.94"(5U)	141 / (64)
	SCV-BAT-150-1K-3	2	4	852.2	419.8	274.7	200.2	[221.5 x 482.6 x 582.5]	193 / (88) 282 / (128
	SCV-BAT-150-1K-2	2	6	> 1200	655.3	428.3	311.3	17.44" x 19.00" x 22.94" (10U)	386 / (176
								[443.0 x 482.6 x 582.5] 26.16" x 19.00" x 22.94" (15U)	
	SCV-BAT-150-1K-3	3	9	> 1200	1018.7	668.5	485.6	[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
	Batteries per string							[]	
	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)	85 / (39)
	SCV-BAT-90-1.5K-2	11	2	240.6	112.8	70.6	49.2	[221.5 x 482.6 x 582.5] ´	130 / (59)
B) HR12150W	/ Batteries per string								
250VA	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)	345 / (156
	SCV-BAT-150-1.5K-2	1	2	433.8	214.2	140.5	101.7	[664.5 x 482.6 x 582.5] 8.72" x 19.00" x 22.94"(5U)	192 / (87)
	SCV-BAT-150-1.5K-2	2	4	926.5	456.8	298.8	217.6	[221.5 x 482.6 x 582.5] 17.44" x 19.00" x 22.94" (10U)	384 / (174
	SCV-BAT-150-1.5K-2	3	6	> 1200	712.9	466.1	338.6	[443.0 x 482.6 x 582.5] 26.16" x 19.00" x 22.94" (15U)	576 / (261
		4	8	> 1200	974.9	639.3	464.3	[664.5 x 482.6 x 582.5] 34.88" x 19.00" x 22.94" (20U)	768 / (348
	SCV-BAT-150-1.5K-2	5	10	> 1200	> 1200	815.9	593.4	[886.0 x 482.6 x 582.5]	960 / (435
	SCV-BAT-150-1.5K-2				7 .200	0.0.0		43.60" x 19.00" x 22.94" (25U) [1107.5 x 482.6 x 582.5]	
	Batteries per string							8.72" x 19.00" x 22.94"(5U)	
700VA	SCV-BAT-90-2K-1	1	1	104.1	47.1	28.8	19.7	[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
I) HR12150W	/ Batteries per string							[]	
700VA	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					<u>'</u>	<u>'</u>		
	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
) HR12150W	V Batteries per string							[110.0 X 102.0 X 002.0]	
	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

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

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.

- Star t-Ups
- n Preventive Maintenance
- Spare Parts
- n Battery Analysis/Refresh/Replacement
- n On-Site Training
- n Time & Material Services
- 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 States Energy Products 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.



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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 su

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

ⁿ 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

ⁿ 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)

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

Hot-Swappable Battery Design

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



Applications

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

On-Line, Single Phase UPS System

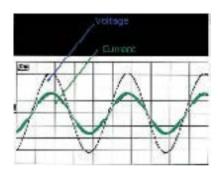
The Staco V represents the latest in single-phase technology at an affordable price. Its true on-line performance provides a constant clean, steady sine wave safeguarding the most sensitive equipment.

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 cir- cuit 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. Backup 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.

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.

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: 230/2	30 VAC - 50/60 H	z – 1000VA	, 1500VA, 2000V	A & 3000VA CE, 30	00VA 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) 65 / (29)
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]	65 / (2 9)
SCV-20002	2000VA/1800W	4	(16A) IEC320-C20	(8) I EC60320-C 13		
SCV-30002	3000VA/2700W		(16A) IEC320-C20		3.39" x 17.24" x 25.10" (2U) [86.2 x 438.0 x 637.5]	
Voltage: 230/2	30 VAC - 50/60 H	lz – 1000VA	i, 1500VA, 2000V	'A & 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]	20/(9) 33/(15)
SCV-15002-LB1	500VA/1350W	0	(10A) IEC320-C14	(6) 1200020 0 10	3.39" x 17.24" x 20.38" (2U) [86.2 x 438.0 x 517.5]	337 (15)
SCV-20002-LB2	000VA/1800W	0	(16A) IEC320-C20		3.39" x 17.24" x 20.38" (2U) [86.2 x 438.0 x 517.5]	
SCV-30002-LB3	000VA/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	CV)	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									
	Rated Volts				220-2	40 VAC			
				160			5 %		
	Low Transfer Re-Transfer		(ba	ased on load parg	antage 100% - 89	20 VAC/110 VAC ± 20 ¥86%128 VAC	<u>႗ီ႐ွ%္က္တ</u> ေ၀% / 60º	%-0)	
Voltage Range	High								
nange	Transfer					AC ± 5 %			
	Re-Transfer				40 Hz	z ~ 70 Hz			
					>0.99 @nc	ominal voltage			
Frequen	cy Range								
Power Fa	actor								
OUTPUT									
Output \					200/208/220	0/230/240 VAC			
	age Regulation					1%			
	cy Range					Hz (Synchronized I			
	cy Range			501	$\frac{1z \pm 0.5\% \text{ or } 6.01}{5.11}$	lz ± 0.5% (Bat. Mo	ode)		
	Crest Ratio								
(CF)					- 00/ TUD	// · · · · · · · · · · · · · · · · · ·			
	c Distortion			22		(Linear load))		
(THDU) Time	Transfer AC to DC			69	, ,	ode before shutdo	wn)		
illie						Zero			
	Inv. to Bypass				4 ms ((Typical)			
Wavefor	m (Battery				D 0				
Mode)	()				Pure Si	inewave			
EFFICIEN	NCY								
AC Mode			87	%		88	3%	88	%
Battery I			85	%		86	5%	85	%
,	Y (NON-LB MOD	EL 0)						-	
Battery ⁻		(2) 12V/9Ah	No Internal	(3) 12V/9Ah	No Internal	(4) 12V/9Ah	No Internal	(6) 12V/9Ah	No Internal
		(Z) 12V/9AII	No Internal					(6) 12 V/9 AII	NO IIILEITIAI
	Recharge Time					pacity (for Non- LB			
	g Current (max.)	1 Amp	6 Amp	1 Amp	6 Amp	1 Amp	6 Amp	1 Amp	6 Amp
	g Voltage	27.4 VD	C ± 1%	41.1 VD	C ± 1%	54.7 VD	OC ± 1%	82.1VD	C ± 1%
LCD DIS	PLAY								
0		Load level 0-25%	%. 26-50%. 51-75	% and 76-100%	. Low Battery and	d Battery Good, Pro	ogrammable Man	agement Outlets w	orkina. UPS Or
Status						oled Indicator and E	•	•	g,
		•				Backup Time (hou			/ Voltage
Reading	S		r UPS Output is sho	0			,	t maioator, Battor,	· · · · · · · · · · · · · · · · · · ·
Control	Calaat Duttana	•		CD Massage Mod	la Sattinge Navig	ation Key, On/Mut	to + Salact Buttor	n to ewitch to Ryna	es Mode
Control/	Select Buttons	•	UPS OII, SWILCH L	CD Message, Mod	le Settings, Navig	gation Key, On/Mut	te + Select Buttor	n to switch to Bypa	ss Mode.
	Select Buttons Kupper Select Buttons	Off/Enter - Turn	OPS OII, SWILCH L	CD Message, Mod	le Settings, Navig	gation Key, On/Mut	te + Select Buttor	n to switch to Bypa	ss Mode.
AUDIBLE	E & VISUAL ALAI	Off/Enter - Turn		<u> </u>		gation Key, On/Mut			
AUDIBLE		Off/Enter - Turn	erload, Battery Not	<u> </u>					
AUDIBLE Warning	E & VISUAL ALAI	Off/Enter - Turn RMS Low battery, Ove	erload, Battery Not cy Unstable	<u> </u>					
AUDIBLE Warning **PHYS	E & VISUAL ALAI Indicators ICAL WEIGHT &	Off/Enter - Turn RMS Low battery, Ove Bypass Frequence DIMENSIONS H"	erload, Battery Not by Unstable x W" x D" / [mm]	Connected, Over	charge, Site Wirir	ng Fault, EPO Enak	oled, Over Tempe	rature, Charger Fa	ilure, Battery Fa
AUDIBLE Warning **PHYS	E & VISUAL ALAI Indicators ICAL WEIGHT &	Off/Enter - Turn RMS Low battery, Ove Bypass Frequence DIMENSIONS H" 3 188. 2 1748	erload, Battery Not by Unstable x W" x D" / [mm] 4.0×161445](2U)	Connected, Over 3.39" x 17.24 [86.2 x 438	charge, Site Wirir ' x 20.38" (2U) 3.0 x 517.5]	3.39" x 17.24"	oled, Over Tempe ' x 20.38" (2U) 3.0 x 517.5]	3.39" x 17.24 [86.2 x 438	ilure, Battery Fa " x 25.10" (2U) 3.0 x 637.5]
AUDIBLE Warning	E & VISUAL ALAI Indicators ICAL WEIGHT &	Off/Enter - Turn RMS Low battery, Ove Bypass Frequence DIMENSIONS H" 3 188. 2 1748	erload, Battery Not by Unstable x W" x D" / [mm] 4.0×161445](2U)	3.39" x 17.24" [86.2 x 438	charge, Site Wirin ' x 20.38" (2U) 3.0 x 517.5] ' x 20.38" (2U)	3.39" x 17.24" [86.2 x 438	oled, Over Tempe ' x 20.38" (2U) 3.0 x 517.5] ' x 20.38" (2U)	3.39" x 17.24" g86.2 x 438	ilure, Battery Fa " x 25.10" (2U) 3.0 x 637.5] " x 25.10" (2U)
AUDIBLE Warning **PHYS Rack Mc	E & VISUAL ALAI Indicators ICAL WEIGHT & Dunt	Off/Enter - Turn RMS Low battery, Ove Bypass Frequence DIMENSIONS H" 3 188 2 17436 17.24" x 3.39 [438.0 x 86	erload, Battery Not by Unstable x W" x D" / [mm] 4.0°×161445](2U) " x 16.44" (2U) 5.2 x 417.5]	3.39" x 17.24' [86.2 x 438' 17.24" x 3.39' [438.0 x 86']	charge, Site Wirin ' x 20.38" (2U) 3.0 x 517.5] ' x 20.38" (2U) 3.2 x 517.5]	3.39" x 17.24" [86.2 x 438 17.24" x 3.39" [438.0 x 86	oled, Over Tempe ' x 20.38" (2U) 3.0 x 517.5] ' x 20.38" (2U) 6.2 x 517.5]	3.39" x 17.24 [86.2 x 438 17.24" x 3.39 [438.0 x 86	ilure, Battery Fa " x 25.10" (2U) 3.0 x 637.5] " x 25.10" (2U) 3.2 x 637.5]
AUDIBLE Warning **PHYS Rack Mc Tower Net Weig	E & VISUAL ALAI Indicators ICAL WEIGHT & Dunt ght lbs. / (kg)	Off/Enter - Turn RMS Low battery, Ove Bypass Frequence DIMENSIONS H" 3 139 2 1438 17.24" x 3.39 [438.0 x 86 29 / (13)	erload, Battery Not by Unstable x W" x D" / [mm] 4.0×161445](2U)	3.39" x 17.24" [86.2 x 438	charge, Site Wirin ' x 20.38" (2U) 3.0 x 517.5] ' x 20.38" (2U)	3.39" x 17.24" [86.2 x 438	oled, Over Tempe ' x 20.38" (2U) 3.0 x 517.5] ' x 20.38" (2U)	3.39" x 17.24" g86.2 x 438	ilure, Battery Fa " x 25.10" (2U) 3.0 x 637.5] " x 25.10" (2U)
AUDIBLE Warning **PHYS Rack Mo Tower	E & VISUAL ALAI Indicators ICAL WEIGHT & Dunt	Off/Enter - Turn RMS Low battery, Ove Bypass Frequence DIMENSIONS H" 3 139 2 1438 17.24" x 3.39 [438.0 x 86 29 / (13)	erload, Battery Not by Unstable x W" x D" / [mm] 4.0°×161445](2U) " x 16.44" (2U) 5.2 x 417.5]	3.39" x 17.24' [86.2 x 438' 17.24" x 3.39' [438.0 x 86']	charge, Site Wirin ' x 20.38" (2U) 3.0 x 517.5] ' x 20.38" (2U) 6.2 x 517.5] 26 / (12)	3.39" x 17.24" [86.2 x 438 17.24" x 3.39" [438.0 x 86 47 / (21)	oled, Over Tempe ' x 20.38" (2U) 3.0 x 517.5] ' x 20.38" (2U) 6.2 x 517.5]	3.39" x 17.24 [86.2 x 438 17.24" x 3.39 [438.0 x 86	ilure, Battery Fa " x 25.10" (2U) 3.0 x 637.5] " x 25.10" (2U) 3.2 x 637.5]
AUDIBLE Warning **PHYS Rack Mc Tower Net Weig	E & VISUAL ALAI Indicators ICAL WEIGHT & ount ght lbs. / (kg) NMENT (Electror	Off/Enter - Turn RMS Low battery, Ove Bypass Frequence DIMENSIONS H" 3 139 2 1438 17.24" x 3.39 [438.0 x 86 29 / (13)	erload, Battery Not by Unstable x W" x D" / [mm] 4.0°×161445](2U) " x 16.44" (2U) 5.2 x 417.5]	3.39" x 17.24' [86.2 x 438' 17.24" x 3.39' [438.0 x 86']	charge, Site Wirin ' x 20.38" (2U) 3.0 x 517.5] ' x 20.38" (2U) 6.2 x 517.5] 26 / (12) 32°F (0°C) to	3.39" x 17.24" [86.2 x 438] 17.24" x 3.39" [438.0 x 86] 47 / (21)	oled, Over Tempe ' x 20.38" (2U) 3.0 x 517.5] ' x 20.38" (2U) 6.2 x 517.5]	3.39" x 17.24 [86.2 x 438 17.24" x 3.39 [438.0 x 86	ilure, Battery Fa " x 25.10" (2U) 3.0 x 637.5] " x 25.10" (2U) 3.2 x 637.5]
AUDIBLE Warning **PHYS Rack Mc Tower Net Weig ENVIROI Operatir	E & VISUAL ALAI Indicators ICAL WEIGHT & ount ght lbs. / (kg) NMENT (Electror	Off/Enter - Turn RMS Low battery, Ove Bypass Frequence DIMENSIONS H" 3 139 2 1438 17.24" x 3.39 [438.0 x 86 29 / (13)	erload, Battery Not by Unstable x W" x D" / [mm] 4.0°×161445](2U) " x 16.44" (2U) 5.2 x 417.5]	3.39" x 17.24' [86.2 x 438' 17.24" x 3.39' [438.0 x 86']	charge, Site Wirin ' x 20.38" (2U) 3.0 x 517.5] ' x 20.38" (2U) 6.2 x 517.5] 26 / (12) 32°F (0°C) to	3.39" x 17.24" [86.2 x 438 17.24" x 3.39" [438.0 x 86 47 / (21)	oled, Over Tempe ' x 20.38" (2U) 3.0 x 517.5] ' x 20.38" (2U) 6.2 x 517.5]	3.39" x 17.24 [86.2 x 438 17.24" x 3.39 [438.0 x 86	ilure, Battery Fa " x 25.10" (2U) 3.0 x 637.5] " x 25.10" (2U) 3.2 x 637.5]
Warning **PHYS Rack Mc Tower Net Weig ENVIROI Operatin Humidity	E & VISUAL ALAI Indicators ICAL WEIGHT & ount ght lbs. / (kg) NMENT (Electror	Off/Enter - Turn RMS Low battery, Ove Bypass Frequence DIMENSIONS H" 3 139 2 1438 17.24" x 3.39 [438.0 x 86 29 / (13)	erload, Battery Not by Unstable x W" x D" / [mm] 4.0x.12.14.15[(2U) "x 16.44" (2U) 5.2 x 417.5] 20 / (9)	3.39" x 17.24' [86.2 x 438 17.24" x 3.39' [438.0 x 86 42 / (19)	charge, Site Wirin ' x 20.38" (2U) 3.0 x 517.5] ' x 20.38" (2U) 5.2 x 517.5] 26 / (12) 32°F (0°C) to	3.39" x 17.24" [86.2 x 438] 17.24" x 3.39" [438.0 x 86] 47 / (21)	v 20.38" (2U) 3.0 x 517.5] v 20.38" (2U) 3.2 x 517.5] 27 / (12)	3.39" x 17.24' [86.2 x 438 17.24" x 3.39 [438.0 x 86 65 / (29)	ilure, Battery Fa " x 25.10" (2U) 3.0 x 637.5] " x 25.10" (2U) 3.2 x 637.5]
AUDIBLE Warning **PHYS Rack Mc Tower Net Weig ENVIROI Operatin Humidity Storage	E & VISUAL ALAI Indicators ICAL WEIGHT & ount ght lbs. / (kg) NMENT (Electroring	Off/Enter - Turn RMS Low battery, Ove Bypass Frequence DIMENSIONS H" 3 139 2 1438 17.24" x 3.39 [438.0 x 86 29 / (13)	erload, Battery Not by Unstable x W" x D" / [mm] 4.0x.12.14.15[(2U) "x 16.44" (2U) 5.2 x 417.5] 20 / (9)	3.39" x 17.24' [86.2 x 438 17.24" x 3.39' [438.0 x 86 42 / (19)	charge, Site Wirin ' x 20.38" (2U) 3.0 x 517.5] ' x 20.38" (2U) 3.2 x 517.5] 26 / (12) 32°F (0°C) to 20-90 % RH ()4°F (40°C) BATT	3.39" x 17.24" [86.2 x 438 17.24" x 3.39" [438.0 x 86 47 / (21)	v 20.38" (2U) 3.0 x 517.5] v 20.38" (2U) 3.2 x 517.5] 27 / (12)	3.39" x 17.24' [86.2 x 438 17.24" x 3.39 [438.0 x 86 65 / (29)	ilure, Battery Fa " x 25.10" (2U) 3.0 x 637.5] " x 25.10" (2U) 3.2 x 637.5]
**PHYS Rack Mc Tower Net Weig ENVIROI Operatin Humidity Storage Noise Le	E & VISUAL ALAI Indicators ICAL WEIGHT & Dunt ght lbs. / (kg) NMENT (Electror Eng	Off/Enter - Turn RMS Low battery, Ove Bypass Frequence DIMENSIONS H" 3 380. 217436 17.24" x 3.39 [438.0 x 86 29 / (13) ics)	erload, Battery Not by Unstable x W" x D" / [mm] 4.0x.12.14.15[(2U) "x 16.44" (2U) 5.2 x 417.5] 20 / (9)	3.39" x 17.24' [86.2 x 438 17.24" x 3.39' [438.0 x 86 42 / (19)	charge, Site Wirin ' x 20.38" (2U) 3.0 x 517.5] ' x 20.38" (2U) 3.2 x 517.5] 26 / (12) 32°F (0°C) to 20-90 % RH ()4°F (40°C) BATT	3.39" x 17.24" [86.2 x 438] 17.24" x 3.39" [438.0 x 86] 47 / (21) to 104°F (40°C) (non-condensing) TERIES (REFRESH 0	v 20.38" (2U) 3.0 x 517.5] v 20.38" (2U) 3.2 x 517.5] 27 / (12)	3.39" x 17.24' [86.2 x 438 17.24" x 3.39 [438.0 x 86 65 / (29)	ilure, Battery Fa " x 25.10" (2U) 3.0 x 637.5] " x 25.10" (2U) 3.2 x 637.5]
AUDIBLE Warning **PHYS Rack Mc Tower Net Weig ENVIROI Operatin Humidity Storage Noise Le MANAGE	E & VISUAL ALAI Indicators ICAL WEIGHT & Dunt ght lbs. / (kg) NMENT (Electror ng /	Off/Enter - Turn RMS Low battery, Ove Bypass Frequence DIMENSIONS H" 3 380. 217436 17.24" x 3.39 [438.0 x 86 29 / (13) ics)	erload, Battery Not by Unstable x W" x D" / [mm] 4.0×16.14/5](2U) " x 16.44/4 (2U) 5.2 x 417.5] 20 / (9)	Connected, Over 3.39" x 17.24" [86.2 x 438 17.24" x 3.39" [438.0 x 86 42 / (19)] 13°F (-25°C) to 10	": x 20.38" (2U) 3.0 x 517.5] ": x 20.38" (2U) 3.2 x 517.5] 26 / (12) 32°F (0°C) to 20-90 % RH (04°F (40°C) BATT Less than 50	3.39" x 17.24" [86.2 x 436] [438.0 x 86] 47 / (21) co 104°F (40°C) (non-condensing) (reries (REFRESH 0) dBA @ 1 Meter	oled, Over Tempe " x 20.38" (2U) 3.0 x 517.5] " x 20.38" (2U) 6.2 x 517.5] 27 / (12) Charge @ 3 month	3.39" x 17.24" 86.2 x 438 17.24" x 3.39" [438.0 x 86 65 / (29)	ilure, Battery Fa " x 25.10" (2U) 3.0 x 637.5] " x 25.10" (2U) 3.2 x 637.5]
**PHYS Rack Mc Tower Net Weig ENVIROI Operatin Humidity Storage Noise Le MANAGI Smart R:	Indicators ICAL WEIGHT & Dunt ght lbs. / (kg) NMENT (Electron ng / EMENT / COMMI	Off/Enter - Turn RMS Low battery, Ove Bypass Frequence DIMENSIONS H" 3 380. 217436 17.24" x 3.39 [438.0 x 86 29 / (13) ics)	erload, Battery Not by Unstable x W" x D" / [mm] 4.0×16.14/5](2U) " x 16.44/4 (2U) 5.2 x 417.5] 20 / (9)	3.39" x 17.24" [86.2 x 43& 17.24" x 3.39" [438.0 x 86 42 / (19)]	": x 20.38" (2U) 3.0 x 517.5] ": x 20.38" (2U) 3.2 x 517.5] 26 / (12) 32°F (0°C) to 20-90 % RH (04°F (40°C) BATT Less than 50	3.39" x 17.24" [86.2 x 436] [438.0 x 86] 47 / (21) co 104°F (40°C) [non-condensing] [TERIES (REFRESH 0) dBA @ 1 Meter	bled, Over Tempe "x 20.38" (2U) 3.0 x 517.5] "x 20.38" (2U) 6.2 x 517.5] 27 / (12) Charge @ 3 month	3.39" x 17.24" 86.2 x 438 17.24" x 3.39" [438.0 x 86 65 / (29)	ilure, Battery Fa " x 25.10" (2U) 3.0 x 637.5] " x 25.10" (2U) 3.2 x 637.5]
AUDIBLE Warning **PHYS Rack Mc Tower Net Weig ENVIROI Operatin Humidity Storage Noise Le MANAGE	Indicators ICAL WEIGHT & Dunt ght lbs. / (kg) NMENT (Electron ng / EMENT / COMMI	Off/Enter - Turn RMS Low battery, Ove Bypass Frequence DIMENSIONS H" 3 380. 217436 17.24" x 3.39 [438.0 x 86 29 / (13) ics)	erload, Battery Not by Unstable x W" x D" / [mm] 4.0×16.14/5](2U) " x 16.44/4 (2U) 5.2 x 417.5] 20 / (9)	3.39" x 17.24" [86.2 x 43& 17.24" x 3.39" [438.0 x 86 42 / (19)]	"x 20.38" (2U) 3.0 x 517.5] "x 20.38" (2U) 3.2 x 517.5] 26 / (12) 32°F (0°C) to 20-90 % RH (04°F (40°C) BATT Less than 50 s 2000/2003/XP, agement from SN	3.39" x 17.24" [86.2 x 436] [438.0 x 86] 47 / (21) co 104°F (40°C) [non-condensing) [TERIES (REFRESH 0) dBA @ 1 Meter [V/Vista/2008/7, Lir] [MMP manager and 1]	bled, Over Tempe "x 20.38" (2U) 3.0 x 517.5] "x 20.38" (2U) 6.2 x 517.5] 27 / (12) Charge @ 3 month	3.39" x 17.24" 86.2 x 438 17.24" x 3.39" [438.0 x 86 65 / (29)	ilure, Battery Fa " x 25.10" (2U) 3.0 x 637.5] " x 25.10" (2U) 3.2 x 637.5]
**PHYS Rack Mc Tower Net Weig ENVIROI Operatin Humidity Storage Noise Le MANAGI Smart R: Optional	Indicators ICAL WEIGHT & Dunt ght lbs. / (kg) NMENT (Electron ng / EMENT / COMMI	Off/Enter - Turn RMS Low battery, Ove Bypass Frequence DIMENSIONS H" 3 380. 217436 17.24" x 3.39 [438.0 x 86 29 / (13) ics)	erload, Battery Not by Unstable x W" x D" / [mm] 4.0×16.14/5](2U) " x 16.44/4 (2U) 5.2 x 417.5] 20 / (9)	3.39" x 17.24" [86.2 x 43& 17.24" x 3.39" [438.0 x 86 42 / (19)]	"x 20.38" (2U) 3.0 x 517.5] "x 20.38" (2U) 3.2 x 517.5] 26 / (12) 32°F (0°C) tr 20-90 % RH (04°F (40°C) BATT Less than 50 s 2000/2003/XP. lagement from SN Communication	3.39" x 17.24" [86.2 x 436] [438.0 x 86] 47 / (21) [50 104°F (40°C) [non-condensing] [7] [7] [7] [7] [7] [7] [7] [7] [7] [7	bled, Over Tempe "x 20.38" (2U) 3.0 x 517.5] "x 20.38" (2U) 6.2 x 517.5] 27 / (12) Charge @ 3 month	3.39" x 17.24" 86.2 x 438 17.24" x 3.39" [438.0 x 86 65 / (29)	ilure, Battery Fa " x 25.10" (2U) 3.0 x 637.5] " x 25.10" (2U) 3.2 x 637.5]
Warning **PHYS Rack Mc Tower Net Weig ENVIROI Operatin Humidity Storage Noise Le MANAGI Smart R: Optional	Indicators ICAL WEIGHT & Dunt ght lbs. / (kg) NMENT (Electror Devel EMENT / COMMUS-232/USB	Off/Enter - Turn RMS Low battery, Ove Bypass Frequence DIMENSIONS H" 3 380. 217436 17.24" x 3.39 [438.0 x 86 29 / (13) ics)	erload, Battery Not by Unstable x W" x D" / [mm] 4.0×16.14/5](2U) " x 16.44/4 (2U) 5.2 x 417.5] 20 / (9)	3.39" x 17.24" [86.2 x 43& 17.24" x 3.39" [438.0 x 86 42 / (19)]	"x 20.38" (2U) 3.0 x 517.5] "x 20.38" (2U) 3.2 x 517.5] 26 / (12) 32°F (0°C) tr 20-90 % RH (04°F (40°C) BATT Less than 50 s 2000/2003/XP. lagement from SN Communication	3.39" x 17.24" [86.2 x 436] [438.0 x 86] 47 / (21) co 104°F (40°C) [non-condensing) [TERIES (REFRESH 0) dBA @ 1 Meter [V/Vista/2008/7, Lir] [MMP manager and 1]	bled, Over Tempe "x 20.38" (2U) 3.0 x 517.5] "x 20.38" (2U) 6.2 x 517.5] 27 / (12) Charge @ 3 month	3.39" x 17.24" 86.2 x 438 17.24" x 3.39" [438.0 x 86 65 / (29)	ilure, Battery Fa " x 25.10" (2U) 3.0 x 637.5] " x 25.10" (2U) 3.2 x 637.5]
Warning **PHYS Rack Mc Tower Net Weig ENVIROI Operatin Humidity Storage Noise Le MANAGI Smart R: Optional	E & VISUAL ALAI Indicators ICAL WEIGHT & Dunt ght lbs. / (kg) NMENT (Electror Pg // EMENT / COMMI S=232/USB L SNMP L MODBUS Card L AS400 Card	Off/Enter - Turn RMS Low battery, Ove Bypass Frequence DIMENSIONS H" 3 380. 217436 17.24" x 3.39 [438.0 x 86 29 / (13) ics)	erload, Battery Not by Unstable x W" x D" / [mm] 4.0×16.14/5](2U) " x 16.44/4 (2U) 5.2 x 417.5] 20 / (9)	3.39" x 17.24" [86.2 x 43& 17.24" x 3.39" [438.0 x 86 42 / (19)]	"x 20.38" (2U) 3.0 x 517.5] "x 20.38" (2U) 3.2 x 517.5] 26 / (12) 32°F (0°C) tr 20-90 % RH (04°F (40°C) BATT Less than 50 s 2000/2003/XP. lagement from SN Communication	3.39" x 17.24" [86.2 x 436] [438.0 x 86] 47 / (21) [50 104°F (40°C) [non-condensing] [7] [7] [7] [7] [7] [7] [7] [7] [7] [7	bled, Over Tempe "x 20.38" (2U) 3.0 x 517.5] "x 20.38" (2U) 6.2 x 517.5] 27 / (12) Charge @ 3 month	3.39" x 17.24" 86.2 x 438 17.24" x 3.39" [438.0 x 86 65 / (29)	ilure, Battery F. " x 25.10" (2U) 3.0 x 637.5] " x 25.10" (2U) 3.2 x 637.5]

^{*} 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	#r@gs External	25% Load	50% Load	75% Load	100% Load	*Dimensions H" x W" x D" / [mm]	*Wt. Ibs. / (kg)
I000VA	Internal	0	1/2	26.9	11.7	6.6	4		
	SCV-BAT-1K	1	1/0	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	1/2	26.9	11.7	6.6	4		
	SCV-BAT-1.5K	1	1/0	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	1/2	26.9	11.7	6.6	4	-	
	SCV-BAT-2K	1	1/0	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)
	Internal	0	1/2	26.9	11.7	6.6	4	[44-11-11-11-11-11-11-11-11-11-11-11-11-1	-
3000VA	SCV-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 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



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

UPS Rating	Part Number	Quantity Cabinets	# Strings	25% E8ad	50% 28ad	75% 288	100% Load	*Dimensions H" x W" x D" / [mm]	*Wt. Ibs. / (kg)
1000VA	Inter nal	0	0	0	0	0	0		
	SCV-BAT-1K	1	2	63.1	28.5	17.5	11.9	3.39" x 17.24" x 17.04" (2U) [86.2 x 438.0 x 432.7]	38 / (17)
		2	4	146.1	66.8	41.6	29	[66:2 X 166:6 X 162:7]	76 / (34)
1500VA	Inter nal	0	0	0	0	0	0		
	SCV-BAT-1.5K	1	2	63.1	28.5	17.5	11.9	3.39" x 17.24" x 20.97" (2U) [86.2 x 438.0 x 532.7]	55 / (25)
		2	4	146.1	66.8	41.6	29	[86.2 X 438.0 X 532.7]	110 / (50)
2000VA	Inter nal	0	0	0	0	0	0		l .
	SCV-BAT-2K	1	2	63.1	28.5	17.5	11.9	3.39" x 17.24" x 20.97" (2U)	64 / (29)
		2	4	146.1	-66.8	41.6	29	[86.2 x 438.0 x 532.7]	128 / (58)
3000VA	Internal	0	0	0	0	0	0		1
3000VA	Inter nal	1	2	63.1	28.5	17.5	11.9	0.00	
	SCV-BAT-3K	2	4	146.1	66.8	41.6	29	3.39" x 17.24" x 25.70" (2U) [86.2 x 438.0 x 652.7]	91 / (41)
								•	182 / (82)

Note: Weights include the total of all cabinets



- n Tower/Rack Mount Convertible Design
- ⁿ Compact and Lightweight
- n Advanced Digital Control Technology
- n Wide Input Voltage and Frequency Ranges
- Not Swappable Battery
- n Extended Run Time Capability

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

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

JPS Rating		Quantity Cabinets	# Strings	25% Load	50% Load	75% Load	100% Load	*Dimensions H" x W" x D" / [mm]	*Wt. Ibs. / (kg)
	Batteries per string			05.0	00.4	00.0	45.0		00 / (04)
AV000	SCV-BAT-90-1K-	1	<u> </u>	85.6	38.4	23.3	15.8		69 / (31)
	1 SCV-BAT-90-	<u> </u>	2	194.9	90.6	56.3	39.1	8.72" x 19.00" x 22.94"(5U)	100 / (45)
	1K-2 SCV-BAT- 90-1K-3 SCV-	<u> </u>	3	310.3	147 205.8	92.6	64.9	[221.5 x 482.6 x 582.5]	130 / (59) 160 / (73)
	90-1K-3 SCV- BAT-90-1K-4		4 5	428.7 548.9	266.1	130.7 170	92.2 120.6	[221.0 x 102.0 x 002.0]	190 / (73)
	SCV-BAT-90-1K-	2	8 	917.5	451.8	292.4	209.4		320 / (146
	5 SCV-BAT-90-	2	10	1174.6	578	376.1	270.6	17.44" x 19.00" x 22.94" (10U)	380 / (172
	1K-4 SCV-BAT-		10	1174.0	370	370.1	270.0	[443.0 x 482.6 x 582.5]	3007 (172
) HR12150V	NPDatteries per string							[110.0 x 102.0 x 002.0]	
000VA	SCV-BAT-150-1K-1	1	1	166.9	81.2	50.7	34.5	8.72" x 19.00" x 22.94"(5U)	90 / (41)
	SCV-BAT-150-1K-1	2	2	355.1	175.7	114.9	82.6	[221.5 x 482.6 x 582.5] 17.44" x 19.00" x 22.94" (10U)	180 / (82)
	SCV-BAT-150-1K-2	1	2	355.1	175.7	114.9	82.6	[443.0 x 482.6 x 582.5] ^	141 / (64)
	SCV-BAT-150-1K-3	1	3	554.4	273	179.2	130.4	8.72" x 19.00" x 22.94"(5U)	193 / (88
	SCV-BAT-150-1K-2	2	4	759.8	373.9	244.9	178.5	[221.5 x 482.6 x 582.5]	282 / (128
	SCV-BAT-150-1K-3	2	6	1177.9	583.8	381.5	277.5	17.44" x 19.00" x 22.94" (10U)	386 / (176
	SCV-BAT-150-1K-3	3	9	> 1200	909.1	595.6	432.5	[443.0 x 482.6 x 582.5] 26.16" x 19.00" x 22.94" (15U)	579 / (264
	SCV-BAT-150-1K-3	4	12	> 1200	> 1200	815.9	593.4	[664.5 x 482.6 x 582.5]	772 / (352
	SCV-BAT-150-1K-3	5	15	> 1200	> 1200	1038.9	757.6	34.88" x 19.00" x 22.94" (20U) [886.0 x 482.6 x 582.5]	965 / (440
LID1000W	Detteries ner string							43.60" x 19.00" x 22.94" (25U) [1107.5 x 482.6 x 582.5]	
) HR1290W 500VA	SCV-BAT-90-1.5K-1	1	1	85.6	38.4	23.3	15.8		85 / (39)
OUVA	SCV-BAT-90-1.5K-1 SCV-BAT-90-1.5K-2							8.72" x 19.00" x 22.94"(5U)	. ,
UD40450		1	2	194.9	90.6	56.3	39.1	[221.5 x 482.6 x 582.5]	130 / (59)
	W Batteries per string SCV-BAT-150-1.5K-	1	1	166.9	81.2	50.7	34.5	8.72" x 19.00" x 22.94"(5U)	115 / (52)
JOOVA	1		2					1 ' '	. ,
	SCV-BAT-150-1.5K-	2	2	355.1 355.1	175.7 175.7	114.9 114.9	82.6 82.6	[221.5 x 482.6 x 582.5] 17.44" x 19.00" x 22.94" (10U)	192 / (87) 230 / (104
	2 SCV-BAT-150- 1.5K-1	3	3	554.4	273	179.2	130.4	[443.0 x 482.6 x 582.5] 26.16" x 19.00" x 22.94" (15U)	345 / (156
	SCV-BAT-150-1.5K-	2	4	759.8	373.9	244.9	178.5	[664.5 x 482.6 x 582.5] 17.44" x 19.00" x 22.94" (10U)	384 / (174
	1	3	6	1177.9	583.8	381.5	277.5	[443.0 x 482.6 x 582.5] 26.16" x 19.00" x 22.94" (15U)	576 / (261
	SCV-BAT-150-1.5K-	4	8	> 1200	799.9	523.3	380.1	[664.5 x 482.6 x 582.5] 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
) HR1290 B	& CEVI-BATE 150: in 5K-							[1107.0 x 102.0 x 002.0]	
OOOVA	SCV-BAT-90-2K-1	1	1	85.6	38.4	23.3	15.8	8.72" x 19.00" x 22.94"(5U)	100 / (45)
	8CV-BAT-90-2K-2							1 ' '	
		1	2	194.9	90.6	56.3	39.1	[221.5 x 482.6 x 582.5]	160 / (73)
	SCV-BAT-90-2K-1 SEV-BAT-96-2K-2K-	2	2	194.9	90.6	56.3	39.1	17.44" x 19.00" x 22.94" (10U)	200 / (90)
	2	2	44	428.7	205.8	130.7	92.2	[443.0 x 482.6 x 582.5]	320 / (146
	W Batteries per string							9 70" v 10 00" v 22 04"/FLI	
00VA	SEV-BAT-150-2K-	1	1	166.9	81.2	50.7	34.5	8.72" x 19.00" x 22.94"(5U)	141 / (64)
	SCV-BAT-150-2K-1	2	2	355.1	175.7	114.9	82.6	[221.5 x 482.6 x 582.5] 17.44" x 19.00" x 22.94" (10U)	282 / (128
	SCV-BAT-150-2K-1	3	3	554.4	273	179.2	130.4	[443.0 x 482.6 x 582.5] 26.16" x 19.00" x 22.94" (15U)	423 / (192
	SCV-BAT-150-2K-1	4	4	759.8	373.9	244.9	178.5	[664.5 x 482.6 x 582.5] 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	968.3	477.8	312.4	227.5	43.60" x 19.00" x 22.94" (25U)	705 / (320
) HR1251W	/ Batteries per string							[
000VA	SCV-BAT-51-3K-2	1	2	105.4	45.6	27.4	18.7	8.72" x 19.00" x 22.94"(5U)	136 / (62)
	SCV-BAT-51-3K-2	2	4	246.5	111.9	68	46.5	[221.5 x 482.6 x 582.5] 17.44" x 19.00" x 22.94" (10U)	272 / (124
				240.5	111.9	00	40.3	[443.0 x 482.6 x 582.5]	2127 (124
	W Batteries per string					T	T	9.70" v 10.00" ·· 00.04"/5! !\	
AV00	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-1	2	2	355.1	175.7	114.9	82.6	17.44" x 19.00" x 22.94" (10U)	386 / (176
	SCV-BAT-150-3K-1	3	3	554.4	273	179.2	130.4	[443.0 x 482.6 x 582.5] 26.16" x 19.00" x 22.94" (15U)	579 / (264
	I .			750.0	373.9	244.9	178.5	[664.5 x 482.6 x 582.5]	772 / (352
	SCV-BAT-150-3K-1	4	4	759.8	070.5			1 1	(
	SCV-BAT-150-3K-1 SCV-BAT-150-3K-1	5	5	968.3	477.8	312.4	227.5	34.88" x 19.00" x 22.94" (20U) [886.0 x 482.6 x 582.5]	965 / (440

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

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.

- Star t-Ups
- n Preventive Maintenance
- Spare Parts
- n Battery Analysis/Refresh/Replacement
- n On-Site Training
- n Time & Material Services
- 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.



Voltage Control

UPS

Power Factor & Harmonics

Since 1937, customers worldwide have relied on Staco Energy as their States Energy Products 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.



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