

The logo for Staco Energy Products Co. is displayed in a large, bold, white font against a background of a stadium at night. The stadium is filled with spectators, and the lights are on, creating a bright, energetic atmosphere. The logo consists of the word "STACO" in a large, stylized font, with "ENERGY" below it in a similar font, and "PRODUCTS CO." in a smaller font at the bottom.

JUICE GOOSE

Staco SCV Series

On-line, Double Conversion UPS

Standard 1000VA, 1500VA, 2000VA & 3000VA

On line, double conversion design operates the connected load off the batteries 100% of the time, achieving high reliability while providing protection from electrical power disturbances. The rack mounted design also allows tower configuration to expand installation opportunities.

Industry leading functionality includes hot swappable batteries, powerful internal charger, emergency shut-down and programmable receptacles. These UPSs provide ideal power protection for audio video installations as well as communication, broadcast, security and data processing systems.



Double Conversion, On-Line UPS - operates connected equipment from the batteries 100% of the time to provide clean, high quality power to fully protect mission critical devices such as AV controllers and processors, digital consoles, teleconferencing systems as well as communication, security and data processing equipment.

High Efficiency Power Factor - converts 90% of available current to usable power. A power factor of 0.90 provides higher performance and efficiency to critical applications.

Programmable Power Outlets - can be easily and independently controlled to power cycle connected equipment or extend battery run time by shutting down non-critical devices during an extended power outage.

Emergency Power Off (EPO) - connects to an alarm panel to immediately remove power to UPS outlets in case of an emergency.

Hot Swappable Battery Design - ensures uninterrupted performance during battery replacement.

Rack or Tower Installation - increases installation options for a wider variety of power continuity needs.

User Friendly and Easy-Shift LDC Panel - displays UPS and electric power status. Rotating format orients the front panel LCD screen to suit the rack or tower installation.

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On-Line UPS Design

Staco on-line models contain the latest in single-phase UPS technology at an affordable price. Their true on-line performance provides a constant clean, steady sine wave safeguarding sensitive equipment.

Double Conversion

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



High Efficiency Protection

Sine wave output yields excellent overall performance. The high crest factor of the inverter handles high inrush current loads without the need to oversize the UPS.

The battery charger operates in a wide frequency (40 - 70Hz) and voltage (55 - 150 VAC) range, which helps to extend battery life.

The high, 0.90 power factor meets current industry standards for energy savings and efficiency with low harmonic pollution to the utility power source.



To protect power overload, the UPS will automatically switch to bypass mode in 30 seconds if the current load is 105% to 120% of rated capacity. It will automatically switch back to the battery - inverter mode once the overload condition ceases. Bypass mode voltage maximums and minimums can be set to prevent over or under voltage exposure to connected loads while the UPS is in bypass.



Applications

- Broadcast / Streaming
- AV Controllers
- Paging
- Security
- Data Network
- Transition to Generator

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Monitoring

An easy to read, front panel LCD display provides real-time indication of all major system parameters and status, including

- Load Level
- Input and Output Voltage
- Battery Status
- Fault Status

Remote serial communication capability is standard for monitoring and management. Optional network card enables WAN connection.



DC Startup

Ensures start-up of UPS even during utility blackout.

Programmable Receptacles

Allow load shedding and power cycling using the provided software or GUI which accompanies the optional network card.

Emergency Power Off

Allows users to shutdown the UPS completely in an emergency to ensure a safe operating environment.

Remote Monitoring and Control

Standard serial and optional network connection allow control of UPS functions and settings as well as monitoring via SNMP, Web, SMS, USB or True Relay card.

Low Profile Enclosure

All SCV models have a low profile, 2U, rack enclosure design. The same design is used for the extended run time battery modules.



Rack or Tower Mounting Options

NRTL Listing: UL 1778 / cUL

User Friendly Plug and Play

Allows hassle free installation. All units up to 3,000VA are supplied with standard input cable and output receptacles.

Innovative Battery Management

Analyzes battery discharging status to adjust battery cut-off point and extend the batteries' life span.

Maintenance Free Sealed Batteries

Internal batteries have an average service life of 3 to 5 years. "Hot swappable" design allows users to replace the batteries without the risk of shock while the UPS continues providing power to connected equipment.

Optional Extended Run Time

External battery cabinets can be connected to the UPS to increase the battery capacity. Simply plug in the cables between the UPS and external battery packs.

Three Year Warranty

UPS electronics are warranted for three years with standard depot repair or replacement terms.

Batteries are warranted by the battery manufacturer for one year.

Extended warranties are available. Contact Juice Goose for details.

Model (Part Number)	VA / Watts	Battery Run Time (Full Load)	Input Power Plug	Output Power Receptacles
SCV-10001 (V1000RT120)	1,000 / 900	4 Mins	5-15P	(4) 5-15R
SCV-15001 (V1500RT120)	1,500 / 1,350	4 Mins	5-15P	(4) 5-15R
SCV-20001 (V2000RT120)	2,000 / 1,800	4 Mins	5-20P	(8) 5-20R
SCV-30001 (V2000RT120)	3,000 / 2,700	4 Mins	L5-30P	(4) 5-20R (1) L5-30R

Model	SCV-10001	SCV-15001	SCV-20001	SCV-30001
Part Number	V1000RT120	V1500RT120	V2000RT120	V3000RT120
Rating VA	1,000	1,500	2,000	3,000
Capacity Watts	900	1,350	1,800	2,700
INPUT				
Rated Volts	100 VAC - 120 VAC			
Low Voltage Transfer At Load Percentage	80VAC@80% - 100%, 70VAC@70% - 80%, 60VAC@60%-70%, 55VAC 60%			
Re-Transfer	85VAC@80% - 100%, 75VAC@70% - 80%, 65VAC@60%-70%, 60VAC 60%			
High Transfer	150VAC +/- 5%			
Frequency Range	50Hz - 60Hz			
Power Factor	≥ 0.99 @ Rated Voltage			
OUTPUT				
Output Voltage (VAC)	100, 110, 115, 120 Load capacity rating is reduced at lower voltages			
AC Voltage Regulation	+ / - 1%			
Frequency Range	47 - 53 Hz or 57 - 63 Hz (synchronized range)			
Frequency Range	50Hz or 60Hz +/- 0.5% (battery mode)			
Current Crest Ratio (CF)	Maximum 5:1			
Harmonic Distortion (THDU)	≤ 2% (linear load) 8% Maximum (battery mode before shutdown)			
Transfer Time AC to DC	No transfer			
Transfer Time Inverter to Bypass	4 ms (typical)			
Waveform (Battery Mode)	Pure Sine Wave			
BATTERY				
Battery Type	(2) 12V/9Ah	(3) 12V/9Ah	(4) 12V/9Ah	(6) 12V/9Ah
Run Time (Full Load, Minutes)	4	4	4	4
Recharging Voltage (+/- 1%)	27.4VDC	41.1VDC	54.7VDC	82.1VDC
Recharging Current (Max, Amps)	4			
Typical Recharge Time	4 hours recover to 90% of capacity			
Typical Service Life	3 to 5 Years			
LCD DISPLAY				
Status	Load level 0-25%, 26-50%, 51-75%, 76-100%; Low Battery/Battery Good, Programmable Management Outlets, UPS On Line, Frequency Converter, Bypass, Alarm Disabled, Battery Charger			
Readings	Input and Output Voltage and Frequency, Battery Backup Time, Fault Indicator, Battery Voltage, Current Overload, Output Current Short Circuit			
Control Select Buttons	Enter / UPS Off, Change Display Message, Mode Setting, Navigation Key, Mute / UPS On, Select Display			
AUDIBLE AND VISUAL ALARMS				
Warning Indicators	Low Battery, Current Overload, Battery Not Connected, Overcharge, External Wiring Fault, EPO Enabled, Over Temperature, Charger Failure, Battery Fault, Bypass Out of Voltage Range, Bypass Frequency Fault			
PHYSICAL				
Dimensions (H x W x D)	3.39" x 17.24" x 16.44"	3.39" x 17.24" x 20.38"	3.39" x 17.24" x 20.38"	3.39" x 17.24" x 27.74"
Weight	29 lbs	42 lbs	47 lbs	65 lbs
ENVIRONMENT				
Operating Temperature	32 F to 104 F			
Storage Temperature	-13 F to 104 F			
Humidity	20 to 90% RH (non-condensing)			
Noise Output	Less than 50 dBA @ 1 meter			
COMMUNICATION				
Standard Smart RS-232/USB	Supports Windows 2000/2003/XP/Vista/2008/7, Linux, Unix and MAC			
Optional SNMP Network Card	SNMP software and browser			
Optional MODBUS Card	Communications from MODBUS			
Optional AS400 Card	With DB9 or 9 Pin Connector			