

## **UNISTAR<sup>®</sup> SB-NET** **UniStar Smart Business Series** **800-3000VA**

### **Line Interactive, Single Phase UPS**

The UniStar<sup>®</sup> Smart Business Network (SB-NET) Line Interactive UPS provides server-grade full power protection from power failures, spikes and surges in a small footprint with enhanced output power factor of 0.9. Combining a flexible rack/tower configuration with the easy-shift LCD panel design, this series is perfect for networking, telecom, server and mission-critical applications.

#### **Output Power Factor 0.9**

- UniStar Series 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 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**

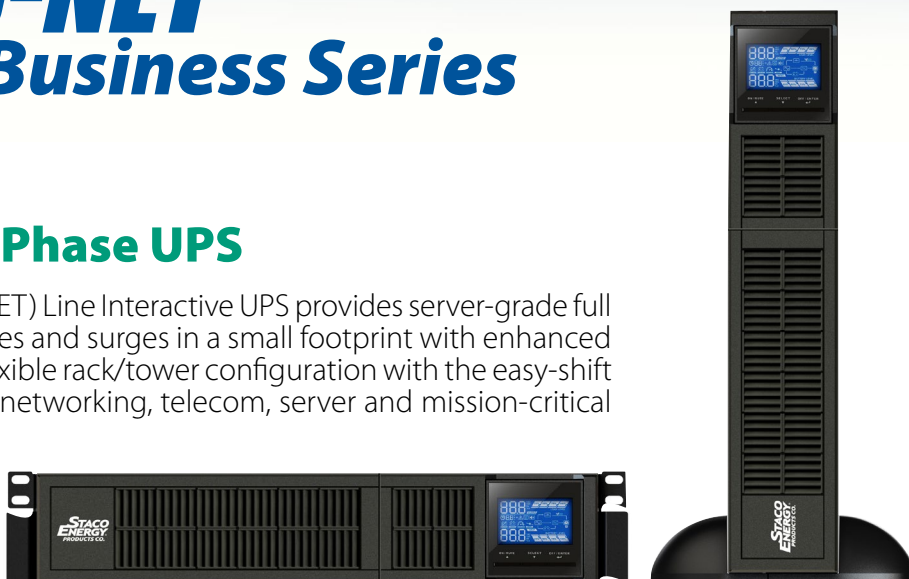
- It allows the UPS to operate in high efficiency up to 97% in energy-saving ECO mode. In this operation mode, load is supplied by the mains. In the event of a mains failure, the inverter takes over the load and provides supply continuity to the connected systems. The Series V even offers advanced ECO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



## Technical Specification

MODEL	SBN-08001	SBN-11001	SBN-15001	SBN-20001	SBN-30001
Capacity VA / Watts	800 VA 720 W	1100 VA 990 W	1500 VA 1350 W	2000 VA 1800 W	3000 VA 2700 W
<b>INPUT</b>					
Voltage Range	81-145 VAC				
Frequency Range	60/50Hz (Auto sensing)				
<b>OUTPUT</b>					
Voltage Regulation (Bat Mode)	110/115/120/127 VAC $\pm$ 1.5% (before battery alarm)				
Frequency Range (Bat Mode)	50 Hz or 60 Hz $\pm$ 1 Hz				
Current Crest Ratio	3:1				
Harmonic Distortion	2% max @ 100% linear load, 5% max @ 100% non-linear load (before low battery alarm)				
Transfer Time	Typical 2-6 ms, 10ms max.				
Waveform (Bat Mode)	Pure Sine Wave				
<b>EFFICIENCY</b>					
AC Mode	95%				
Buck & Boost Mode	93%				
Battery Mode	88%		90%		
<b>BATTERY</b>					
Battery Type & Number	12 V/7 Ahx2	12 V/9 Ahx2	12 V/7 Ahx4	12 V/9 Ahx4	12 V/9 Ahx6
Charging Voltage	27.4 VDC $\pm$ 1%		54.8 VDC $\pm$ 1%		82.1 VDC $\pm$ 1%
Typical Recharge Time	4 hours recover to 90% capacity				
Charging Current	1.5A				
100% Load Runtime (min)	4.3	2.2	4.8	2.8	2.8
50% Load Runtime (min)*	11.4	8.4	12.7	9.7	9.7
<b>PROTECTION</b>					
Full Protection	Overload, short, discharge, and overcharge protection				
<b>AUDIBLE &amp; VISUAL ALARMS</b>					
Battery Mode	Sounding every 10 seconds				
Low Battery	Sounding every 2 seconds				
Overload	Sounding every second				
Battery Replacement Alarm	Sounding every 2 seconds				
Fault	Continuously sounding				
<b>**PHYSICAL WEIGHT &amp; DIMENSIONS</b>					
Dimensions, D" x W" x H" / [mm]	16.14 x 17.25 x 3.46 [410 x 438 x 88]		20.08 x 17.25 x 3.46 [510 x 438 x 88]		24.80 x 17.25 x 3.46 [630 x 438 x 88]
Net Weight lbs. / (kg)	28.4 (12.9)	29.5 (13.4)	43.0 (19.5)	47.4 (21.5)	64.6 (29.3)
<b>ENVIRONMENT</b>					
Humidity	0-90% RH @ 0-40 degC (Non-Condensing)				
Noise Level	Less than 45 dB				
<b>COMMUNICATION</b>					
Smart RS-232/USB	Supports Windows® 2000/2003/XP/Vista/2008, 7/8, Linux, Unix, and MAC				
Optional SNMP	Power management from SNMP manager and web browser				

\*\*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.

- **Start-Ups**
- **Preventive Maintenance**
- **Spare Parts**
- **Battery Analysis/Refresh/Replacement**
- **On-Site Training**
- **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 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.



Your Tailored Power Solutions Provider™

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