

## A Powerful Complete All-in-One Power Solution (Home UPS) Designed for 24 Hours Operation

**SHU Series 800W~8KW**



### Introduction

**SHU** series, a powerful all-in-one solution, delivers unsurpassed clean true sine wave output power and combines this with a selectable multistage battery charging current. Applicable for any kinds of loads such as home appliances, air conditioners, water pumps, heating systems, lightning systems, security systems and sensitive consumer electronics as well as office equipment, etc. This series features a durable & continuous 24 hours operation. The built-in 5-stage intelligent charger automatically charges any types of batteries without the risk of overcharge. The compact & modular design makes utility interactive installations easier and more cost effective. It is a high quality product that offers the best price / performance ratio in the industry.

### Features

- Utility+Inverter+Battery Charger+Transfer Switch+ Solar Charger+Remote Control All in One.
- Un-limited load applicability.
- Low frequency feature compatible with wide range of high energy loads.
- 24 hours operation from inverter.
- Un-limited batteries backup time.
- Multi-stage charger supports big charge.
- Compatible with both liner & non-linear load.
- Controllable, Programmable and Removable LCD panel.
- DC start and automatic self-diagnostic on Start-up.
- Automatic transfer when power fails.
- High Efficiency design to save electricity.
- Low Heat dissipation over a long time operation.
- <3% Total Harmonic Distortion (THD).
- Designed to operate under harsh environments.
- 3 LED lights provides easy reading on system status.
- Inherent full-feature safety protections.
- Integrates with a Generator set.
- Support Solar Panel.
- Optional Multiple interfaces cards available.

# Technical Specification

Model		SHU8-24	SHU16-24	SHU24-24	SHU40-24	SHU60-48	SHU80-48	
Capacity	Watt	800W	1.6KW	2.4KW	4.0KW	6.0KW	8.0KW	
<b>INPUT</b>								
Nominal Voltage		110/115/120Vac or 220/230/240Vac					220/230/240Vac	
Acceptable Voltage Range		60~135V or 120~270Vac (nominal 120 or 220V)					120~270Vac	
Frequency		45Hz ~ 70Hz Auto-sensing					45Hz~70Hz Auto-sensing	
Low Voltage Transfer		60Vac+/-2% ; 120Vac+/-2%					120Vac+/-2%	
Low Voltage Return		65Vac+/-2% ; 130Vac+/-2%					130Vac+/-2%	
High Voltage Transfer		135Vac+/-2% ; 270Vac+/-2%					270Vac+/-2%	
High Voltage Return		130Vac+/-2% ; 260Vac+/-2%					260Vac+/-2%	
<b>OUTPUT</b>								
Nominal Voltage		110Vac (115Vac or 120Vac re-settable via LCD panel); 220Vac (230Vac or 240Vac re-settable via LCD panel)					220Vac (230Vac or 240Vac re-settable via LCD panel)	
Voltage Regulation		<3% RMS for entire battery voltage range (Bat. Mode)						
Frequency Regulation	Line Mode	Synchronized to AC Main						
	Battery Mode	50Hz or 60Hz ±0.1Hz						
Efficiency		> 75%	>80%					
Wave Form		Pure Sine wave						
Transfer Time		< 8ms Typical						
<b>DC START</b>								
Cold Start		Yes						
<b>BATTERY</b>								
Battery Voltage		24Vdc	24Vdc				48Vdc	
Backup Time		Based on the Batteries Connected						
<b>PROTECTION</b>								
Overload	Line Mode	> 110%, then Buzzer Alarm and amber LED Blink Continuously						
	Battery Mode	110%~150% for 30 sec; >150% for 200ms, then UPS Shuts Down						
Short Circuit	Line Mode	Circuit Breaker						
	Battery Mode	Electronic Circuit						
<b>CONTROL PANEL</b>								
LCD Display		HOME UPS Status, I/P & O/P Voltage Frequency, Load Level, Battery Voltage & Level, Temperature, Model						
LED Indicator		Normal (Green), Warning (Yellow), Fault (Red)						
<b>PARAMETER RE-SETTABLE</b>								
Parameter Re-settable		Voltage, Frequency, 5 Steps Charging Current						
<b>AUDIBLE ALARM</b>								
Battery Mode		Beeping Every 4 Seconds						
Low Battery		Beeping Every Second						
HOME UPS Fault		Beeping Continuously						
Overload		Beeping Twice Per Second						
<b>SAFETY COMPLIANCE</b>								
Safety Standard		EN62040-1-1						
EMC		EN62040-2						
Marks		CE						
<b>ENVIRONMENTAL</b>								
Operating Temperature		0°C ~ +40°C (32°F ~ 104°F)						
Relative Humidity		0~95% RH Non-condensing						
Audible Noise		Less than 55dBA (at 1M)						
<b>PHYSICAL</b>								
Size	W*D*H / mm	298*150*400	298*190*450		415*260*600			
Net Weight	kgs	14	21	23	50	52	54	

Remarks: All specifications mentioned above are subject to change without prior notice.