



**S**ystek SUN SABRE SERIES Hybrid Solar Power System (HSPS) supplies maximum energy from Photo Voltaic (Solar) panels to the connected load. It provides residual energy from the utility mains in case of deficient power from Solar panels or excess load.

The SUN SABRE SERIES HSPS comprises of a sine-wave, line-interactive hybrid UPS, especially designed for use with solar applications.

Utilization of maximum power from Solar panels by HSPS reduces end-user cost and pay-back period of the investment.

### Salient Features

- ▶ Optimal Solar Power Usage
- ▶ User-settable Operation Mode
- ▶ Configurable Algorithm Settings
- ▶ Sine-wave Output
- ▶ Reactive-load Handling Capability
- ▶ High Cold-start Capability
- ▶ Built-in AVR
- ▶ Faulty Mains Voltage Protection
- ▶ Programmable Input Voltage Range
- ▶ Input Phase Locking
- ▶ Genset Compatibility
- ▶ Intelligent Four Stage Charger
- ▶ High-power Battery Charger
- ▶ Over-heat Protection
- ▶ Remote Monitoring
- ▶ Battery-charging Mode Indications

SPECIFICATIONS					
MODELS	SBR-100	SBR-200	SBR-400	SBR-600	SBR-800
<b>Electrical Specifications</b>					
Power Rating (VA)	1000	2000	4000	6000	8000
Output Voltage / Frequency	220 V AC $\pm 10\%$ (+10 / - 15 for Wide Mains) / Input Phase Locked / 50 Hz				
Waveform on Battery	Sine-wave, Synchronized to Utility Mains < 10% T.H.D.				
Overload Capacity	>40% for 1 sec, 40% for 2 sec, 25% for 3 sec				
Output Current Limit	200% of full-load (on inverter)				
Boost Charge	10A max (Adjustable)				
Default Float Voltage	13.6V / Battery (Programmable)				
Default Charging Voltage	14.10V / Battery (Programmable)				
Default Restart Voltage	12.3V				
Input Voltage / Frequency	Narrow: 170 - 280 V AC, Wide: 160 - 270 V AC / 45 - 65 Hz				
Input Filtering	Metal Oxide Varistor, EMI & RF Filters				
Input Mains Hysteresis	Over-voltage: 5V, Under-voltage 7V				
<b>General Specifications</b>					
Topology / Efficiency	Line-interactive / 90%				
Change-over Time	2 ms (Typical)				
Charger Type / Current	Tri State (CCCV) Charging / 8 - 12A				
Cooling	Forced (Long life Temperature controlled Fan)				
Audible Noise	<45 dBA @ 1m (Standard Unit)				
Interface*	RS - 232 (DB - 9 Connector) / SNMP				
Status Indications	On-mains, On-battery, Battery Charging / Charged, Overload Trip & Error				
Protection	Mains Over - Under Voltage, Over-Temperature, Over-Load, Over-Discharge, Noise, Surge, Short-Circuit, Internal Failure				
Audible Alarms	Button Press, Battery Low, Over Load, Over Heat, Inverter Start, Error, Trip				
Batteries (Nos. x V)	2 x 12	2 x 12	4 x 12	6 x 12	8 x 12
Charge Controller	30A	2 x 30A	2 / (3*) x 21A	2 / (3*) x 21A	2 / (3*) x 21A
Charger Options	15A	15A	2 x 10A	2 x 10A	2 x 10A
<b>Environmental Specifications</b>					
Ambient Temperature	45°C (Max)				
Relative Humidity	95% non-condensing (Max)				

NOTE ▶ Features marked with \* are optional ▶ All features are not common to all models ▶ Customized ratings and features also available ▶ Specifications are subject to change without notice