



SPH-B Series

2-5kW

Features

Intelligent Communication :

- Monitoring through Wifi
- Cloud-base Monitoring Service
- RS485 and USB Communication ports

Smart Energy Management :

- Smart self EMS for all operation mode
- Daily/ Monthly/ Total energy generation logs
- Full protection function
- Maximize self-consumption, lower your bills

Lithium-ion Battery

- 10 years plus lifetime
- Capacity modularly extended from 2 to 8kWh
- Accordant appearance for whole system
- Intelligent BMS

Energy Storage System (2-5kW)

- All-in-one solution
- Lower your electric bills
- Maximize self-consumption
- Help for energy independence

Backup Power :

- Load power backed-up at grid interruption
- User-adjustable charging setting for different battery
- Battery DC/AC efficiency : 93.6%

Value-added Services :

- Maximize self-consumption via internal sensing, can also add CT or Smart Meter to increase precision for option
- Lead-acid battery for option
- Power distribution cabinet

■ SPECIFICATION

Parameters	Model	SPH2000-B	SPH3000-B	SPH3600-B	SPH5000-B
PV Input					
Maximum PV Input Power (W)		2200	3300	4000	5000
Maximum PV Voltage (VDC)		480			
DC Voltage Range (VDC)		160~480			
Full-load MPPT Voltage Range (VDC)		200~420			
MPPT Number		2			
String Maximum Input Current (A)		10	10	10	10
Battery (Lithium-ion) & Charger					
Battery Capacity(Wh)		2kWh to 9.6kWh			
Maximum Charging Current (A)		7	10	10	10
Maximum Discharging Power (W)		2200	3300	3600	4600
Rated Battery Voltage(V)		192 (48V Option)			
Battery Voltage Range(V)		175~226			
On-grid Output					
Rated Output Power		2000	3000	3600	4600
Rated Grid Voltage (V)		220/230/240			
Grid Voltage Range (V)		187~264 (this may vary with grid standards)			
Maximum Output Current (A)		9.1	13.6	16.3	20.9
THDi (Full Load)		<3%			
Rated Grid Frequency (Hz)		50/60			
Grid Frequency Range(Hz)		47.5-52.5 / 57.5-62.5 (this may vary with grid standards)			
PF		1±0.8 (adjustable)			
Max Efficiency		97.0%			
Off-grid Output					
Rated Output Power (W)		2000	3000	3600	3600
Rated Grid Voltage (V)		220/230/240			
Frequency (Hz)		50/60			
Over Load Capacity		105% continuity; 106-130% for 1min			
THDu		<3% (linear load)			
Efficiency (Max) 94.8		94.80%			
Other					
Dimension, WxDxH(mm)		480x438x144			
Weight(KG)		20	20	20	20
Communication Interface		RS485(PC)/RS485(Meter)/Wifi			
Relative Humidity		0 ~ 90% , No condensation			
Noise(dB)		<55			
Operating Temperature(°C)		-20 to 50 (>40 , power derating)			
IP Grade		IP20			
Altitude(m)		0 ~ 2000 (>2000, power derating)			
Certificate		VDE0126-1-1, VDE-AR-N4105, G83; IEC62109-1, IEC62109-2; EN61000-6-3, EN61000-6-2			
Topology		Transformerless			

● Specification are subject to change without prior notice.

STD 03.04.17



Uninterruptible Power Supplies

