



Residential Energy Storage System

SPH 48V Series (3.6~5kW)

- » Flexible energy management
- » Multi-working modes application
- » Remote energy dispatching
- » Uninterrupted power supply
- » Export energy setting

Intelligent Communication:

- Monitoring through WiFi
- Cloud-based Monitoring Service
- RS485 and USB communication ports
- Accept remote energy dispatching

Smart Energy Management:

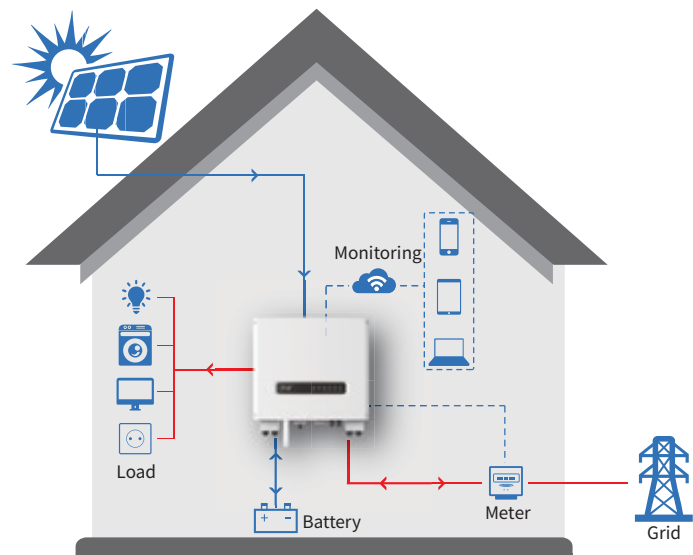
- Smart EMS for all operating modes
- Daily/Monthly/Total energy generation logs
- Settable modes for different application scenarios
- Maximize self-consumption, lower your bills

Lithium-ion Battery:

- Excellent performance for 10 years plus lifetime
- Capacity modularly extended from 2 to 10kWh
- Wall mounted and rack-mounted optional
- 48V design, intelligent BMS

Value-added Services:

- CT or Smart Meter increase power control precision
- Lead-acid/Pb-C battery for option
- Power distribution cabinet



Technical Specification:

Items	SPH3600-BL	SPH5000-BL
PV Input		
PV Max Power (W)	4000	5500
Max Voltage (Vdc)	550	
MPPT Range (Vdc)	125~550	
Max Input Current (Adc)	11×2	
MPPT Number / Strings	2/2 (can be parallel)	
On-grid Output		
Rated Power (W)	3600	5000
Rated Output Voltage (Vac)	220/230/240	
Grid Voltage Range (Vac)	184~265	
Grid Frequency Range (Hz)	47.5~ 52.5 or 57.5~ 62.5	
Rated Output Current (A)	17	22.7
Power Factor	>0.99	
Max Efficiency	97.50%	
Europe Efficiency	96.50%	
THDi (%)	<2% (full load)	
Battery Inverter (Emergency Mode)		
Rated Output Voltage (Vac)	220/230/240	
Output Frequency (Hz)	50(60)±0.5	
Output Power (W/VA)	2500/3500	
Transfer Time (ms)	0	
Efficiency (DC/AC)	93.5%	
Voltage Harmonic (%)	<2% (ohmic load)	
Charge-Discharge		
Nominal Voltage (Vdc)	48	
Max Charging Power (W)	2500 (settable)	
Max Charging Current (A)	52 (settable)	
Max Discharging Power (W)	2500	
Max Discharging Current (A)	52	
Battery Type	Lithium / Pb-C / Lead acid	
System		
Installation	Wall mounted	
Ingress Protection	IP65	
Dimension (W×H×D)(mm)	480×420×185	
Weight (kg)	25	
Isolation Method (solar)	Transformerless	
Isolation Method (battery)	HF	
Cooling	Natural cooling	
Noise Emission (dB)	<25	
Display	LED/APP	
Ambient Humidity	0 ~ 90% , non condensation	
Temperature (°C)	-25~ +60	
Operation Altitude	0 ~ 3000m	
On-grid Standard	G83/2; G59/3; EN50438; CEI 0-21; AS4777.2:2015	
Safety	IEC62109-1, IEC62109-2, AS62040-1-1	
EMC	EN61000-6-3, EN61000-6-2	
Communication Interface	RS485 (modbus) / WiFi / DRM	
Accessories	CT, Smart meter (optional)	

- Specifications are subject to change without prior notice.