

Wall All-in-one Energy Storage System

WSH-8 ~ 10KW51.2V200AH/300AH



WSH series integrates inverters, controllers, and batteries, and can expand the battery capacity according to customer needs. It is an independent household solar power station meets the needs of households for arbitrary electricity consumption.



ADVANTAGES-FEATURES



Pure Sine Wave Output, Adaptable to Different Loads



UPS Function: Transfer Time <20ms



Easy Installation with Modular and Stacked Design



Multiple Working Mode: Photovoltaic/Battery/AC Priority



Configurable Proportion of Photovoltaic, Mains, and Battery Input



On&off-grid Energy Storage System Can Maximize the Use of Photovoltaics



6,000 Cycle Times, 10 Years Lifespan



Technical Data

| Model | WSH-8KW51.2V200AH | WSH-8KW51.2V300AH | WSH-10KW51.2V200AH | WSH-10KW51.2V300AH |
|---------------------------------------|---|-------------------|--------------------|--------------------|
| Solar Charge Data | | | | |
| Max. PV Array Power | 8000W | | 10000W | |
| MAX DC Voltage | 450VDC | | | |
| MPPT Voltage Range | 90~450VDC | | | |
| MPPT Tracker / Strings | 2 | | | |
| Max. Solar Charge Current | 120A | | 150A | |
| Max. AC Charge Current | 60A | | 60A | |
| * Max. Charge Current | 120A | | 150A | |
| Inverter & Controller Data | | | | |
| Rated Power | 8000W | | 10000W | |
| Efficiency (Peak) | Up to 93.5% | | | |
| Grid Voltage / Range | 230 VAC ± 5% | | | |
| Frequency | 50Hz / 60Hz | | | |
| Waveform | Pure sine wave | | | |
| Transfer Time | 10ms (For Personal Computers) ; 20ms (For Home Appliances); | | | |
| Surge Power | 16000VA | | 20000VA | |
| Cooling | Natural | | | |
| Dimensions (W*D*H) | 880x420x225mm | | | |
| isolation Transformer weight | 22.3kg | | | |
| Protection | | | | |
| Arc Fault Protection | Yes (Optional) | | | |
| Anti-reverse Protection | Yes | | | |
| Anti-island Protection | Yes | | | |
| DC Over current Pratection | Yes | | | |
| Insulation Monitoring | Yes | | | |
| Residual Current Monitoring | Yes | | | |
| Other Protection | AC Over current; AC Over voltage; Over temperature Protection | | | |
| Battery Data | | | | |
| SOC estimation | Yes | | | |
| Intelligent balance | Yes | | | |
| GPS positioning | Yes | | | |
| sleep and wake-up | Yes | | | |
| Nominal Voltage | 51.2V | | | |
| Rated Capacity | 200Ah | 300Ah | 200Ah | 300Ah |
| MAX Charging/Discharging Current | 200A | 300A | 200A | 300A |
| Dimensions (W*D*H) | 235x460x922.4 mm | 275x480x1383.6 mm | 235x460x922.4 mm | 275x480x1383.6 mm |
| Battery Cycle Life | ≥ 6000 Time & DoD>80% | | | |
| System Data | | | | |
| Nominal Output Power | 8000W | | 10KW | |
| Rated Capacity | 10.24kWh | 15.36kWh | 10.24kWh | 15.36kWh |
| Cell Type | LiFePO4 | | | |
| IP Protection | IP20 | | | |
| Warranty | 5 Years | | | |
| General Data | | | | |
| Interface | RS232/RS485/Dry contact | | | |
| Display | Touch Key + LCD | | | |
| Relative Humidity | 5% to 95% Relative Humidity (Non-condensing) | | | |
| Operating Temperature | Charging: 0°C~50°C / Discharging: -15°C~60°C | | | |
| Altitude | >2000m Derating | | | |
| Battery Safety Standard | EN/IEC 62109-1 ; EN/IEC 62109-2 | | | |
| Inverter Safety Standard | CEI 0-21 | | | |