

## Hybrid Inverter

Single-Phase ECO Series: SW 3.6-6KSH/LV



**HOT  
SALE**

IP65 Protection.

<40dB Mute Operation.

Southeast Asia

Africa

Middle East

### Features:

- Fit for 220 V/230 V/240 V grid voltages
- IP65 indoor or outdoor installation
- 135 A Max. battery charge/discharge current
- Support 40 V-60 V lithium-ion and lead-acid battery system
- Built-in Wi-Fi , remote App monitoring and updating
- < 40dB Mute-level operation
- 2 MPPTs , 18 A+18 A PV input current for high power solar panels
- 200% PV oversizing, 9,000 W Max. PV usable power
- 90 V lower startup voltage , 70 V-480 V wide MPPT voltage range
- 41 A Max. grid passthrough current
- Support generator/smart load/AC coupling
- < 10ms UPS-level switching time
- 6 time periods for battery charging/discharging
- Support split-phase and 3-phase system operation

## DATASHEET

SW 3K6SH/LV

SW 5KSH/LV

SW 6KSH/LV

	SW 3K6SH/LV	SW 5KSH/LV	SW 6KSH/LV
<b>Efficiency</b>			
Max. Efficiency (PV to AC)		97.3%	
Eur. Efficiency (PV to AC)		96.8%	
Max. Efficiency (BAT to AC)		94.3%	
<b>Input (PV)</b>			
Max. PV Access Power		12,000W	
Max. PV Usable Power		9,000W	
Max. PV Voltage		500V	
Start-up Voltage		90V	
MPPT Voltage Range		70V-480V	
Max. Input Current		18A/18A	
Max. Short Circuit Current		25A/25A	
Nos. of MPPT		2	
String per MPPT		1/1	
<b>Input/Output (BAT)</b>			
Battery Type		Lithium-ion/Lead-acid	
Nominal Battery Voltage		48V	
Battery Voltage Range		40V-60V	
Max. Charging/Discharging Current	75A/75A	110A/110A	135A/135A
Max. Charging/Discharging Power	4,000W/4,000W	5,500W/5,500W	6,600W/6,600W
<b>Input/Output (Grid)</b>			
Nominal AC Output Power	3,600W	5,000W	6,000W
Max. AC Apparent Power	3,960VA	5,500VA	6,600VA
Rated AC Output Current	16.4A/15.7A/15.0A	22.7A/21.7A/20.8A	27.3A/26.1A/25.0A
Max. AC Output Current	18A	25A	28.7A
Max. Input Power From Grid		9,000W	
Max. Grid Passthrough Current		41A	
Rated Grid Voltage		220V/230V/240V, L+N+PE	
Grid Voltage Range		150V-300V (Adjustable)	
Rated Grid Frequency		50Hz/60Hz	
AC Frequency Range		45Hz-55Hz/55Hz-65Hz (Adjustable)	
Power Factor		> 0.99 @rated power (Adjustable 0.8 LD - 0.8 LG)	
THDI		<3% (Rated Power)	
<b>Output (Back up)</b>			
Nominal Output Power	3,600W	5,000W	6,000W
Max. Output Power	3,960VA	5,500VA	6,600VA
Rated AC Output Current	16.4A/15.7A/15.0A	22.7A/21.7A/20.8A	27.3A/26.1A/25.0A
Peak Output Power (1min)	4,320VA	6,000VA	7,200VA
Peak Output Power (10S)	7,200VA	9,300VA	9,300VA
Nominal Output Voltage		220V/230V/240V, L+N+PE	
Nominal Output Frequency		50Hz/60Hz	
Transfer Time		10ms (Typical)	
THDV		<3% @100% R Load	
<b>Protection</b>			
Protection Category		Class I	
PV Switch		Optional	
Anti-islanding Protection		Yes	
AC Over Current Protection		Yes	
Over Voltage Protection		Yes	
AC Short Circuit Protection		Yes	
PV Reverse Protection		Yes	
Surge Arrester		Type III	
<b>General</b>			
Max. Operation Altitude		4000m (>2000m derating)	
Protection Degree		IP65	
Operating Temperature Range		-25°C~60°C (>45°C derating)	
Relative Humidity		0~100%	
Cooling	Natural Cooling	Natural Cooling	Smart Fan Cooling
Mounting		Wall bracket	
Dimensions (W*H*D)		367mm*421mm*215mm	
Weight		15.5 kg	
<b>HMI &amp; COM</b>			
Display		LED+LCD	
Communication		CAN (for BMS), RS485, CAN (for parallel), 1*DO, 1*DI, Wi-Fi, LAN (Optional)	
<b>Certification</b>			
Safety		IEC/EN 62109-1/2	
EMC		IEC/EN 61000-6-1/2/3/4	
Warranty		5 Years	

- The range of output voltage and frequency may vary depending on different grid codes.
- Specifications are subject to change without advanced notice.