

Hybrid Inverter

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

Max. 9 Units in Parallel.

Plug-and-Play Connection.

Europe

Features:

- Fit for 220 V/230 V/240 V grid voltages
- IP65 indoor or outdoor installation
- 4.3-inch color touchscreen optional for user-friendly local operation
- Fully compliant with European requirements
- 90 V industry-leading start-up voltage, 70 V-540 V wide MPPT voltage range
- 2 independent MPPTs, Max. 10 kW PV usable power
- 110% continuous AC output power
- Ultra-low idle consumption -- 0.15 kWh/day
- AC coupling ready
- Support Max. 9 units in parallel
- Support 3-phase connection
- <10 ms UPS-level switching time
- AC Type III / DC Type II overvoltage protection
- Smart monitoring and remote energy management

DATASHEET

SW 3K6SH/LV-EU

SW 5KSH/LV-EU

SW 6KSH/LV-EU

	SW 3K6SH/LV-EU	SW 5KSH/LV-EU	SW 6KSH/LV-EU
Efficiency			
Max. Efficiency (PV to AC)		97.3%	
Eur. Efficiency (PV to AC)		96.8%	
Max. Efficiency (BAT to AC)		94.3%	
Input (PV)			
Max. PV Usable Power		10,000W	
Max. PV Voltage		550V	
Start-up Voltage		90V	
MPPT Operating Voltage Range		70V-540V	
Max. Input Current per MPPT		18A/18A	
Max. Short Circuit Current per MPPT		25A/25A	
String per MPPT		1/1	
Nos. of MPPT		2	
Input/Output (BAT)			
Battery Type		Lithium-ion/Lead-acid	
Nominal Battery Voltage		48V	
Battery Voltage Range		40V-65V	
Max. Charge/Discharge Current	75A/75A	110A/110A	135A/135A
Max. Charge/Discharge Power	4,000W/4,000W	5,500W/ 5,500W	6,600W/ 6,600W
Input/Output (Grid)			
Nominal AC Output Power	3,600W	5,000W	6,000W
Max. AC Apparent Power	3,960VA	5,500VA	6,600VA
Max. AC Output Power (PF=1)	3,960W	5,500W	6,600W
Max. AC Output Current	18A	25A	28.7A
Max. Input Power From Grid	7,500W	9,000W	9,000W
Max. Input Current From Grid	34A	41A	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	
Output (Back up)			
Nominal Output Power	3,600W	5,000W	6,000W
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	10,000VA	10,000VA
Nominal Output Voltage		220V/230V/240V, L+N+PE	
Nominal Output Frequency		50Hz/60Hz	
Transfer Time		10ms (Typical)	
THDV		<3%@100% R Load	
Protection			
Protection Category		Class I	
DC Switch		Yes	
Anti-islanding Protection		Yes	
AC Over Current Protection		Yes	
PV/AC Over Voltage Protection		DC Type II, AC Type III	
AC Short Circuit Protection		Yes	
PV Reverse Protection		Yes	
Surge Arrester		DC Type III, AC Type III (Type II Optional)	
Insulation Detection		Yes	
Leakage Current Protection		Yes	
General			
Max. Operation Altitude		4000m (>2000m derating)	
Protection Degree		IP65	
Operating Temperature Range		-25°C-60°C (>45°C derating)	
Relative Humidity		0~100%	
Cooling Method	Natural Cooling	Natural Cooling	Smart Fan Cooling
Mounting		Wall bracket	
Dimensions (W*H*D)		377mm*452mm*206mm	
Weight		20 kg	
HMI & COM			
Display		LED, LCD (Optional)	
Communication		RS485/CAN (for BMS), RS485 (for Meter), DRMs, CAN (for parallel), 2*DO, 2*DI ,USB (for Wi-Fi/LAN,optional)	
Certification			
Grid Code		IEC 61727/62116/61683/60068, NRS 097-2-1, G98, G99, VDE4105, EN 50549-1/-10, AS 4777.2	
Safety		IEC/EN 62109-1&2	
EMC		IEC/EN 61000/62920	
Warranty		5 Years/10 Years (Optional)	

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