

Hybrid Inverter

Three-Phase HV Series: SW 25/30KTH/HV-EU



Two BMS for Batteries.

2*75A Charge/Discharge Current.

Europe

Features:

- Outstanding IP66 indoor or outdoor installation
- Virtual Power Plant (VPP) ready
- Compatible with 120 V-800 V high-voltage lithium-ion/lead-acid batteries
- 3 MPPTs , Max. 32 A PV input current for high power solar panels
- 150 V lower startup voltage , 160 V-950 V wide MPPT voltage range
- 45 kW Max. PV usable power
- 2 BAT terminals, 2 independent BMS ports
- Whole series of 45 kW battery charging power
- 110% continuous AC output power
- Support generator/AC coupling
- Support 3-phase unbalanced output operation
- Support 10 units in parallel
- < 10ms UPS-level switching time
- Optional AFCI function

DATASHEET

SW 25KTH/HV-EU

SW30KTH/HV-EU

	SW 25KTH/HV-EU	SW30KTH/HV-EU
Efficiency		
Max. Efficiency (PV to AC)		98.4%
Eur. Efficiency (PV to AC)		97.9%
Max. Efficiency (BAT to AC)		98.0%
Input (PV)		
Max. PV Usable Power		45,000W
Max. PV Voltage		1,000V
Start-up Voltage		150V
MPPT Operating Voltage Range		160V-950V
Max. Input Current per MPPT		32A/32A/32A
Max. Short Circuit Current per MPPT		40A/40A/40A
String per MPPT		2/2/2
Nos. of MPPT		3
Input/Output (BAT)		
Battery Type		Lithium-ion/Lead-acid
Battery Voltage Range at Rated Power	190V-800V	230V-800V
Battery Voltage Range		120V-800V
Max. Charge/Discharge Current		2*75A/2*75A
Max. Charge/Discharge Power	45,000W ^① /30,000W	45,000W ^① /36,000W
Input/Output (Grid)		
Nominal AC Output Power	25,000W	30,000W
Max. AC Output Apparent Power	27,500VA	33,000VA
Max. AC Output Power (PF=1)	27,500W	33,000W
Max. AC Output Current	3*41.7A	3*50A
Max. Single Phase Power	11,000VA	11,000VA
Max. Input Power	45,000VA	45,000VA
Max. Input Current	3*68.2A	3*68.2A
Nominal Grid Voltage		380V/400V/415V, 3W+N+PE
Grid Voltage Range		277V-520V (Adjustable)
Nominal Grid Frequency		50Hz/60Hz
Grid 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	25,000W	30,000W
Nominal Output Current	3*37.9A	3*45.5A
Peak Output Apparent Power (5min)	30,000VA	36,000VA
Peak Output Apparent Power(10s)	37,500VA	45,000VA
Nominal Output Voltage		380V/400V/415V, 3W+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 Overcurrent Protection		Yes
DC/AC Overvoltage Protection		DC Type II, AC Type III
AC Short Circuit Protection		Yes
DC Reverse Protection		Yes
Surge Arrester		DC Type II, AC Type II
Insulation Resistance Detection		Yes
Leakage Current Protection		Yes
AFCI 2.0		Optional
General		
Max. Operation Altitude		4000m (>2000m derating)
Ingress Protection Degree		IP66
Operating Temperature Range		-25°C~60°C (>45°C derating)
Relative Humidity		0~100%
Cooling Method		Smart Fan Cooling
Mounting		Wall bracket
Dimensions (W*H*D)		660mm*596mm*235mm
Weight		55kg
PV Connection Way		MC4/H4
HMI & COM		
Display		Bluetooth & APP+LED, LCD (Optional)
Communication		RS485/CAN (for BMS), RS485, DRM/RS485 (for Meter), Optional: Wi-Fi/LAN, 3*DO, 2*DI
Certification		
Safety		IEC 62109-1&2
EMC		IEC/EN 61000
Grid		VDE 4105, EN 50549-1, CEI 0-21, NRS 097-2-1, RD 1699/661/647/413, UNE 217002, AS 4777.2, C10/11, IEC 61727/62116
Warranty		5 Years/10 Years (Optional)

- ^① For single battery port connected, the maximum charge power is 25,500W. When two ports are used, the power can reach 45,000W.
- The range of output voltage and frequency may vary depending on different grid codes.
- Specifications are subject to change without advanced notice.