


Hybrid Inverter

Split-Phase US Series: SW 11K4SH/LV-USP



HOT SALE

NEMA 3R Protection.

Whole-Home Backup Choice.

USA
Canada

Features:

- NEMA 3R/IP65 indoor or outdoor installation
- Fully compliant with the energy storage system requirements in North America
- 200 A grid passthrough current for whole-home backup solution
- 3 MPPTs , Max. 30 A PV input current for high power solar panels
- 15 kW Max. PV usable power
- 210 A battery charging/discharging current
- 10 kW Max. battery charging/discharging power
- 11.4 kW continuous AC output, 17.1 kW peak surge capacity
- 90 V lower startup voltage , 70 V-540 V wide MPPT voltage range
- Support generator/smart load/AC coupling
- Support 3-phase system operation
- Integrated AFCI/RSD function
- Built-in multiple AC/DC breakers for safety and reliability
- DC /AC Type II Surge Protection
- < 10ms UPS-level switching time

DATASHEET

SW 11K4SH/LV-USP

Efficiency	
CEC. Efficiency	96.5%
Input (PV)	
Max. PV Usable Power	15,000W
Max. PV Voltage	600V
Start-up Voltage	90V
MPPT Operating Voltage Range	70V-540V
Max. Input Current Per MPPT	30A/22A/22A
Max Short Current Per MPPT	40A/30A/30A
No. of PV Strings Per MPPT	2/2/2
No. of MPPT	3
Input/Output (BAT)	
Battery Type	Lithium-ion/Lead-acid
Nominal Battery Voltage	51.2V
Battery Voltage Range	40V-64V
Max. Charging/Discharging Current	210A/210A
Max. Charging/Discharging Power	10,000W/10,000W
Input/Output (Grid)	
Nominal AC Output Power	11,400W
Max. AC Output Apparent power	11,400VA
Max. AC Output Current	47.5A
Max. Grid Passthrough Current	200A
Nominal Grid Voltage	120V/240V (Split phase), 120V/208V (2/3 phase)
Nominal Grid Frequency	50Hz/60Hz
Grid Frequency Range	45Hz-55Hz/55Hz-65Hz (Adjustable)
Power Factor	> 0.99@Rated power (Adjustable 0.8 LG - 0.8 LD)
THDI	<3%@Rated Power
Output (Load)	
Nominal Output Power	11,400W
Max. AC Output Apparent Power	11,400VA
Nominal Output Current	47.5A
Peak Output Apparent Power	150%,10s
Nominal Output Voltage	120V/240V (Split phase), 120V/208V (2/3 phase)
Nominal Output Frequency	50Hz/60Hz
Transfer Time	<10ms (Typical)
THDV	<3%@100% R Load
Output/Input (GEN Port)	Max. 100A/24,000W
Protection	
Protection Category	Class I
DC Switch	Yes
Anti-islanding Protection	Yes
AC Overcurrent Protection	Yes
DC/AC Overvoltage Protection	Yes
AC Short Circuit Protection	Yes
PV Reverse Connection	Yes
Surge Arrester	DC Type II, AC Type II
Insulation Resistance Detection	Yes
Leakage Current Protection	Yes
Battery Breaker	Integrated (300A)
Load Breaker	Integrated (2*200A)
AFCI 2.0/RSD Monitoring	Yes
General	
Max. Operation Altitude	4000m (>2000m derating)
Ingress Protection Degree	NEMA 3R
Operating Temperature Range	-25°C-60°C (>45°C derating)
Relative Humidity	0-100%
Cooling Method	Smart Cooling
Mounting	Wall bracket
Dimensions (W*H*D)	17.6*35.5*10.6 inch (448mm*901mm*270mm)
Weight	47kg/103.6lb
HMI & COM	
Display	LED or 4.3-inch touch LCD
Communication	CAN (for BMS), RS485 (for meter), RS485, CAN (for parallel), Optional: Wi-Fi/LAN
Certification	
Safety	UL 1741/CSA C22.2/UL 1699B
EMC	FCC Part 15 Class B
Grid Code	UL 1741SA, UL 1741SB, UL 1741 PCS CRD, IEE1547, HECO SRD 2.0, CSIP
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.