


Hybrid Inverter

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



HOT SALE

NEMA 3R Protection.

Essentials Backup Choice.

USA Canada

Features:

- NEMA 3R/IP65 indoor or outdoor installation
- Fully compliant with the energy storage system requirements in North America
- 47.5 A grid passthrough current for the essentials 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
- 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-US

Efficiency	
Max. Efficiency (PV to AC)	98.0%
Max. Efficiency (BAT to AC)	94.5%
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
String Per MPPT	2/2/2
Nos. of MPPT	3
Input/Output (BAT)	
Battery Type	Lithium-ion/Lead-acid
Nominal Battery Voltage	48V
Battery Voltage Range	40V-64V
Max. Charging/Discharging Current	210A/210A
Max. Charging/Discharging Power	10,000W/10,000W
Output (Grid)	
Nominal AC Output Power	10,000W
Max. AC Output Apparent Power	11,400VA
Max. AC Output Power (PF=1)	11,400W
Nominal AC Output Current	41.7A
Max. AC Output Current	47.5A
Nominal Grid Voltage	120/240V (Split phase), 120/208V (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 (Back up)	
Nominal Output Power	10,000W
Max. AC Output Power (PF=1)	11,400W
Nominal Output Current	41.7A
Peak Output Apparent Power (1s)	20,000VA
Nominal Output Voltage	120/240V (Split phase), 120/208V (2/3 phase)
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 IV
AC Short Circuit Protection	Yes
DC Reverse connection	Yes
Surge Arrester	DC Type II, AC Type II
Insulation Resistance Detection	Yes
Leakage Current Protection	Yes
AFCI2.0/RSD Monitoring	Yes
General	
Max. Operation Altitude	2,000m
Ingress Protection Degree	NEMA 3R
Operating Temperature Range	-25~60°C(>45°C derating)
Relative Humidity	0~100%
Locked Rotor AMPS (LRA)	180A
Cooling Method	Fan Cooling
Mounting	Wall bracket
Dimensions (W*H*D)	16.5*31.5*9.4 inch (420mm*800mm*240mm)
Weight	44 kg / 97 lb
HMI & COM	
Display	Wireless & APP + LED , LCD (optional)
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	UL1741SA, UL1741SB, UL 1741 PCS CRD, IEEE1547, 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.