



11.4kW 48V Split Phase Hybrid Solar Inverter

Whole Home Backup(200A) UL 1741 Certification

This high-performance hybrid inverter is engineered to efficiently convert solar energy into AC power, store excess energy in batteries, or feed it back into the grid. Supporting up to 15kW PV input and delivering 11.4kW continuous output, it offers unmatched flexibility for **off-grid, grid-tied, or hybrid solar systems.**

Equipped with **AC-coupled** functionality and a robust **200A whole-home backup capability**, it ensures uninterrupted power supply during outages. Its **IP65-rated** enclosure makes it ideal for both indoor and outdoor installations, providing durable, weather-resistant performance in any environment.

200A

Whole Home Backup

MPPT

Built-in 3-way MPPT



AC Coupling Function



Support Different Batteries



Stable Output

IP65

IP 65 Outdoor/ Indoor



Bluetooth & APP operation



5 Working modes



LED +LCD dual display



Supports 9 parallel units



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Technical Specifications

Product Model	SGN-11K15PRO
Efficiency	
CEC. Efficiency	96.50 %
Input (PV)	
Max. PV Input Power	15,000W
Max. PV Voltage	600V
Start-up Voltage	90V
MPPT Operating Voltage Range	70V to 540V
Max. Input Current per MPPT	30A/22A/22A
Nos. Of MPPT	3
Input /Output(BAT)	
Compatible Battery Type	Lithium-ion/Lead-acid
Battery Voltage Range	40V to 64V
Max. Charge/Discharge Current	210A/210A
Max. Charge/Discharge Power	10,000W/10,000W
Output (Grid)	
Nominal AC Output Power	11,400W
Max. AC Output Current	47.5A
Max. Grid Passthrough Current	200 A
Nominal Grid Voltage	120 V /240 V (Split phase),120 V /208 V (2/3 phase)
Nominal Grid Frequency	50Hz/60Hz
Power Factor	>0.99@rated power (Adjustable 0.8LG to 0.8LD)
Output (Load)	
Nominal Output Power	11,400W
Nominal Output Current	47.5A
Peak Output Apparent Power	150 %,10 s
Nominal Output Voltage	120 V /240 V (Split phase),120 V /208 V (2/3 phase)
Nominal Output Frequency	50Hz/60Hz
Transfer Time	<10ms (typical)
THDV	<3% @100% R Load
Protection	
Protection Category	Class I
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 III
RSD	Yes
General	
Ingress Protection Degree	IP65/NEMA 3R
Operating Temperature Range	-13°F to 140°F (>113°F derating), -25°C to 60°C (>45°C derating)
Dimensions (W*H*D)	17.6*35.5*10.6 inches(448*901*270 mm)
Weight	103.6 lbs/47Kg
HMI & COM	
Display	LED+ LCD
Communication	CAN (for BMS), RS485 (for meter), RS485, CAN (for parallel), Optional: WiFi /LAN
Certification	
Compliance	UL 1741/CSA C22.2/UL 1699B,UL1741SA, UL1741SB, UL 1741 PCS CRD, IEEE1547, HECO SRD 2.0, CSIP
Warranty	10 Years

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