

# Residential System

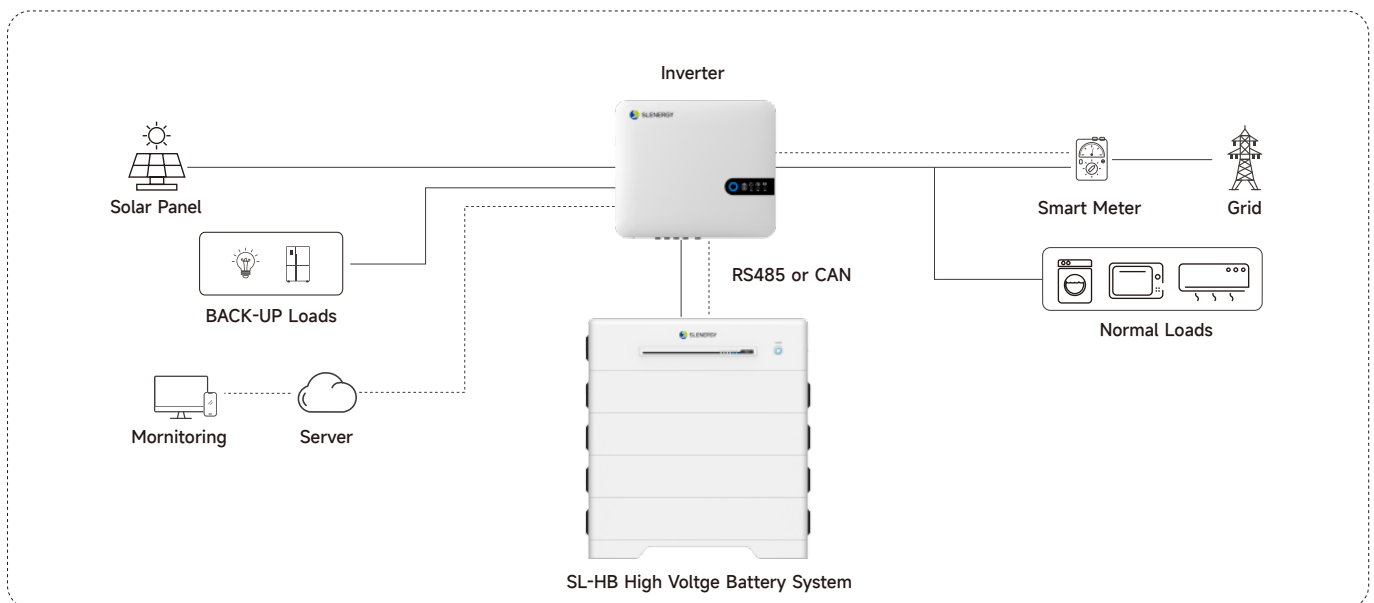


Three Phase High Voltage Hybrid Inverter  
**5kW-12kW**

+High Voltage Battery System  
**11.04kWh-36.8kWh**



## Application System



# SL5-12KRH-W

## Three Phase High Voltage Hybrid Inverter



### Flexible Design & Use

- DC 16A current input, compatible with high power PV module;
- Supports application in retrofit scenario;
- UPS Switching time <10ms;



### Energy Independence

- Fast charging / discharging to meet the demand of higher consumption;
- 110% continuous AC output overloading;
- 130% max. AC output overloading@85s;



### Convenient Installation & Operation

- Unique push-in connectors for time-saving installation;
- Touch free commissioning with smartphone;
- Compact size and elegant appearance;



### Smart Management

- Remote firmware update and customizable settings;
- Free online monitoring to enhance energy management for end user, installer and retailer;
- Programmable supply priority for PV, Battery or Grid;

Model	SL5KRH-W	SL6KRH-W	SL8KRH-W	SL10KRH-W	SL12KRH-W
<b>PV (DC)</b>					
Recommended Max. PV Input Power	7500 Wp	9000 Wp	12000 Wp	15000 Wp	18000 Wp
Max. Input Voltage*	1000 V				
Start-up Voltage	135 V				
Rated Input Voltage	600 V				
MPPT Input Voltage Range*	135-900 V				
MPPT Max. Input Current	16 A / 16 A				16 A / 32 A
MPPT Short-circuit Current	20 A / 20 A				20 A / 40 A
No. of MPPT			2		
No. of Strings per MPPT	1 / 1				1 / 2
<b>Grid (AC)</b>					
Max. Input Apparent Power**	10000 VA	12000 VA	16000 VA	20000 VA	24000 VA
Rated Output Power	5000 W	6000 W	8000 W	10000 W	12000 W
Max. Output Apparent Power	5500 VA	6600 VA	8800 VA	11000 VA	13200 VA
Rated AC Voltage	3L/N/PE , 220/380 V, 230/400 V, 240/415 V				
Input/Output Voltage Range	180-300 V / 200-253 V				
Rated Output Voltage Frequency	50 / 60 Hz				
Input/Output Voltage Frequency Range	(45-55) ; (55-65) Hz				
Rated Output Current	7.2 A	8.7 A	11.6 A	14.5 A	17.4 A
Max. Input/Output Current	15.2 A / 9.8 A	18.2 A / 11.8 A	24.2 A / 15.8 A	30.3 A / 19.7 A	36.4 A / 23.6 A
Power Factor (Rated)	>0.99				
Adjustable Power Factor Range	0.8 leading ... 0.8 lagging				
Total Harmonic Distortion	<3% (Rated Power)				
Grid Connection Mode	3L/N/PE				
<b>AC Load Output (Off-grid)</b>					
Rated Output Power	5000 W	6000 W	8000 W	10000 W	12000 W
Max. Output Apparent Power	5500 VA	6600 VA	8800 VA	11000 VA	13200 VA
Rated Output Voltage	3L/N/PE , 220/380 V, 230/400 V, 240/415 V				
Output Voltage Range	200-240 V				
Rated Output Frequency	50/60 Hz				
Rated Output Current	7.2 A	8.7 A	11.6 A	14.5 A	17.4 A
Max. Output Current	9.8 A	11.8 A	15.8 A	19.7 A	23.6 A
Total Harmonic Distortion	< 3% (R Load)				
On-grid/Off-grid Switching Time	< 10 ms				
<b>Battery (DC)</b>					
Rated Output Power	5000 W	6000 W	8000 W	10000 W	12000 W
Max.Charge/Discharge Power	12500 W / 5500 W	12500 W / 6600 W	12500 W / 8800 W	12500 W / 11000 W	12500 W / 13200 W
Battery Voltage Range	135-800 V				
Max. Charge/Discharge Current	25 A / 25 A				
Communication Port	CAN / RS485				
<b>Efficiency</b>					
Max. Efficiency	97.6%				
Max. MPPT Efficiency	99.9%				
Max. European Efficiency	97.0%				
<b>Protection</b>					
Integrated Protection	Anti-flow Protection, DC Reverse Protection, DC Circuit Breaker, Insulation Resistor Detection, Leakage Current Monitoring, Output Shorted Protection, Output Over Current Protection, Grid Monitoring, Anti-islanding Protection, Residual Current Monitoring, Reverse Polarity Protection, Off-grid Overload Protection.				
Surge Protection	DC Type II, AC Type II				
<b>Display and Communication</b>					
Display	LED+APP				
Communication	Yes: RS485 / USB , Optional: 4G / WiFi				
<b>General Data</b>					
Dimensions (WxHxD)	516 x 442 x 222 mm				
Weight	24 kg				
Operating Temperature Range	-30~60 °C				
Noise	<30 dB				
Cooling	Smart Cooling				
Installation Style	Wall-mounted				
Protection Rating	IP66				
Warranty	10 Years				
<b>Standards Compliance</b>					
Grid Connection	G98/G99, EN 50549/50438, CEI 0-21, AS 4777.2, VDE 4105/0126, RD1699/661/413/244/2019, UNE 206006/206007, NTS Type A, UNE 217002/217001				
Safety Regulation	EN/IEC 62109-1/2				
Others	EN/IEC 61000-6-1/2/3/4				

\* Max. DC input voltage is 1000V without battery, 850V with battery. If the voltage is greater than the maximum, the inverter is in standby state.

\*\* Max. grid input power refers to the max. power drawn from the grid, including the supply of off-grid load and battery charging.

# SL11.04-36.8HB

## High Voltage Battery System

NEW



SL-HB series is a high voltage battery that offers multiple energy storage options through an expandable modular design (2-10 modules combined), which further simplifies installation and O&M with multiple smart functions. The safest battery cell technology (LFP) comes with a high charging rate, ensuring superior performance.



### Product Feature

- Original battery active balance technology;
- Flexible capacity options, 11.04kWh to 36.8kWh;
- Easy installation with modular and stacked design;
- Remote diagnosis and real-time data monitoring;

Model	SL11.04HB	SL14.72HB	SL18.40HB	SL22.08HB	SL25.76HB	SL29.44HB	SL33.12HB	SL36.80HB
<b>System</b>								
Battery System Energy	11.04 kWh	14.72 kWh	18.40 kWh	22.08 kWh	25.76 kWh	29.44 kWh	33.12 kWh	36.80 kWh
Rated Battery Voltage	153.6 V	204.8 V	256 V	307.2 V	358.4 V	409.6 V	460.8 V	512 V
Rated capacity	72 Ah							
Rated Circuit	36A							
Max Charging /Discharging Current	50A							
Cycle times	≥5500 time *							
System Dimensions (W×H×D) mm	710 × 639 × 320	710 × 776 × 320	710 × 913 × 320	710 × 1050 × 320	710 × 1187 × 320	710 × 1324 × 320	710 × 1461 × 320	710 × 1598 × 320
System Net Weight	130.96 kg	160.08 kg	204.66 kg	246.64 kg	275.12 kg	316.56 kg	353.68 kg	390.8 kg
Communication	RS485/CAN							
<b>Module</b>								
Battery Module Energy	3.68 kWh							
Rated Battery Module Voltage	51.2 V							
Battery Module Dimensions (W×H×D)	710 × 137 × 320 mm							
Battery Module Net Weight	36.32 kg							
<b>Environment</b>								
Operating Temperature	-10°C~55°C (Charge) / -20°C~55°C (Discharge)							
Storage Temperature	-30°C~60°C							
Operating Humidity	5%~95%RH, non-condensing							
Operating Altitude	≤4000 m							
Cooling	Natural convection							
Installation	Wall-mounted or Floor-mounted							
Ingress Protection Rating	IP54							
Warranty	10 years							
<b>Certification</b>								
Standards	IEC 62619, IEC 63056 , MSDS, IEC 62040-1, IEC 61000-6-1, IEC 61000-6-3, UN 38.3							

\*25°C, 0.5C, 80% DOD