SLENERGY

Residential System

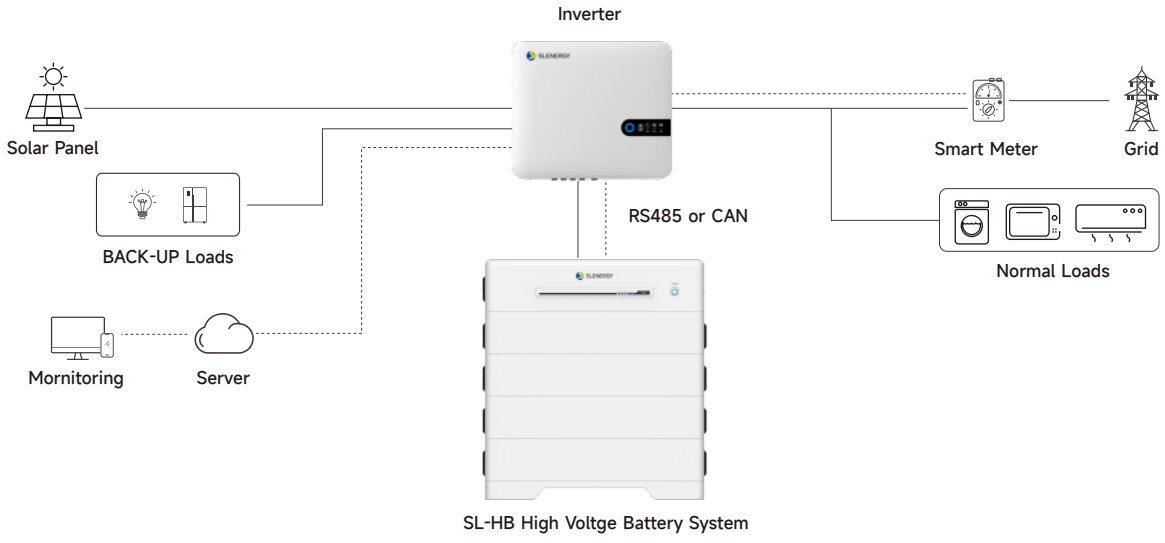
Single Phase High Voltage Hybrid Inverter

3kW-10kW

+High Voltage Battery System

7.36kWh-33.12kWh

Application System



SLENERGY

SL3-10KLH-W

Single Phase High Voltage Hybrid Inverter

Flexible Design & Use

- DC 16A current input, compatible with high power PV module;
- 32A charge/discharge current;
- Supports application in retrofit scenario;
- UPS Switching time <10ms;

Energy Independence

- Fast charging / discharging to meet the demand of higher consumption;
- 10kW power of off-grid overloading@600s;
- Maximum 260% DC overmatching;

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;

SLENERGY

SL3-10KLH-W

Model	SL3KLH-W	SL3.6KLH-W	SL4.6KLH-W	SL5KLH-W	SL6KLH-W	SL8KLH-W	SL10KLH-W
PV (DC)							
Max. PV Input Power*	7000 Wp	7000 Wp	12600 Wp	13000 Wp	14000 Wp	16000 Wp	20000 Wp
Max. Input Voltage**	600 V						
Start-up Voltage	120 V						
Rated Input Voltage	370 V						
MPPT Input Voltage Range**	100-550 V						
MPPT Max. Input Current	16 A		16 A / 16 A			16 A / 32 A	
MPPT Short-circuit Current	20 A		20 A / 20 A			20 A / 40 A	
No. of MPPT	1		2				
No. of Strings per MPPT	1		1 / 1			1 / 2	
Grid (AC)							
Max. Input Apparent Power***	10350 VA					12650 VA	
Rated Output Power	3000 W	3680 W	4600 W	5000 W	6000 W	8000 W	10000 W
Max. Output Apparent Power	3000 VA	3680 VA	4600 VA	5000 VA	6000 VA	8000 VA	10000 VA
Rated AC Voltage	L/N/PE, 220 / 230 / 240 V						
Input/Output Voltage Range	154-276 V						
Rated Output Voltage Frequency	50/60 Hz						
Input/Output Voltage Frequency Range	(45-55)/(55-65) Hz						
Rated Output Current	13.04 A	16.00 A	20.00 A	21.74 A	26.09 A	34.78 A	43.48 A
Max. Input/Output Current***	45 / 16 A	45 / 18 A	45 / 23 A	45 / 25 A	45 / 28 A	55 / 36 A	55 / 45 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	L/N/PE						
AC Load Output (Off-grid)							
Rated Output Power	3000 W	3680 W	4600 W	5000 W	6000 W	8000 W	10000 W
Max. Output Apparent Power	10000 VA@600s						>10000 VA
Rated Output Voltage	L/N/PE, 220 / 230 / 240 V						
Output Voltage Range	154-276 V						
Rated Output Frequency	50/60 Hz						
Rated Output Current	13.04 A	16.00 A	20.00 A	21.74 A	26.09 A	34.78 A	43.48 A
Max. Output Current	45 A						
Total Harmonic Distortion	<3% (Rated Power)						
On-grid/Off-grid Switching Time	< 10 ms						
Battery (DC)							
Max.Charge/Discharge Power	8000 W / 8200 W						10000 W / 10250 W
Battery Voltage Range	85-460 Vdc						
Max. Charge/Discharge Current	32A / 32A						
Communication Port	CAN/RS485						
Efficiency							
Max. Efficiency	97.6%						
Max. MPPT Efficiency	99.9%						
Max. European Efficiency	97.0%						
Protection							
Integrated Protection	Anti-flow Protection, DC Reverse Protection, DC Circuit Breaker, Insulation Resistor Detection, GFCI Leakage Current Monitoring, Output Shorted Protection, Output Over Current Protection, Grid Monitoring, Anti-islanding Protection, Residual Current Monitoring, BAT reverse Polarity Protection, BAT Shorted Protection, Off-grid Overload Protection.						
Surge Protection	DC Type II, AC Type II						
Display and Communication							
Display	LED+APP						
Communication	RS485 / WiFi, 4G (Optional)						
General Data							
Dimensions (WxHxD)	516x442x222 mm						
Weight	22.5 kg						
Operating Temperature Range	-30~60 °C						
Noise	<35 dB						
Cooling	Smart Cooling						
Installation Style	Wall-mounted						
Protection Rating	IP66						
Warranty	10 Years						
Standards Compliance							
Grid Connection	CEI 0-21, UNE 217001, UNE 217002, NTS Type A, VDE 4105, VDE 0126, EN 50438, G98, G99, EN50549, AS 4777.2						
Safety Regulation	EN/IEC 62109-1/2						
Others	EN/IEC 61000-6-1/3						

*Recommanded PV power should be considered by battery capcity and actual household load.

**Max. PV input voltage is 460V when battery input voltage is less than 150V.

***The max. input power & current from grid refers to the ability of the inverter to charge the battery and bearing the load at the same time.

SLENERGY

SL7.36-33.12HB

NEW

High Voltage Battery System

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, 7.36kWh to 33.12kWh;
- Easy installation with modular and stacked design;
- Remote diagnosis and real-time data monitoring;

Model	SL7.36HB	SL11.04HB	SL14.72HB	SL18.40HB	SL22.08HB	SL25.76HB	SL29.44HB	SL33.12HB
System								
Battery System Energy	7.36 kWh	11.04 kWh	14.72 kWh	18.40 kWh	22.08 kWh	25.76 kWh	29.44 kWh	33.12 kWh
Rated Battery Voltage	102.4 V	153.6 V	204.8 V	256 V	307.2 V	358.4 V	409.6 V	460.8 V
Rated capacity	72 Ah							
Rated Circuit	36A							
Max Charging /Discharging Current	50A							
Cycle times	≥5500 time *							
System Dimensions (W×H×D)	710 × 502 × 320 mm	710 × 639 × 320 mm	710 × 776 × 320 mm	710 × 913 × 320 mm	710 × 1050 × 320 mm	710 × 1187 × 320 mm	710 × 1324 × 320 mm	710 × 1461 × 320 mm
System Net Weight	93.84 kg	130.96 kg	160.08 kg	204.66 kg	246.64 kg	275.12 kg	316.56 kg	353.68 kg
Communication	RS485/CAN							
Module								
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							
Environment								
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	IP54							
Warranty	10 years							
Certification								
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

Slenergy Technology GmbH
Hamburger Allee 2-4 60486
Frankfurt a.M. Germany

Slenergy Technology Co, S.L.
Avenida de Europa 26, edificio atica V. 2°F,
28224 Pozuelo de Alarcón, Madrid, Spain

marketing@slenergy.com

www.slenergy.com

(20240823-V1)