

Residential System



Single Phase Low Voltage Hybrid Inverter

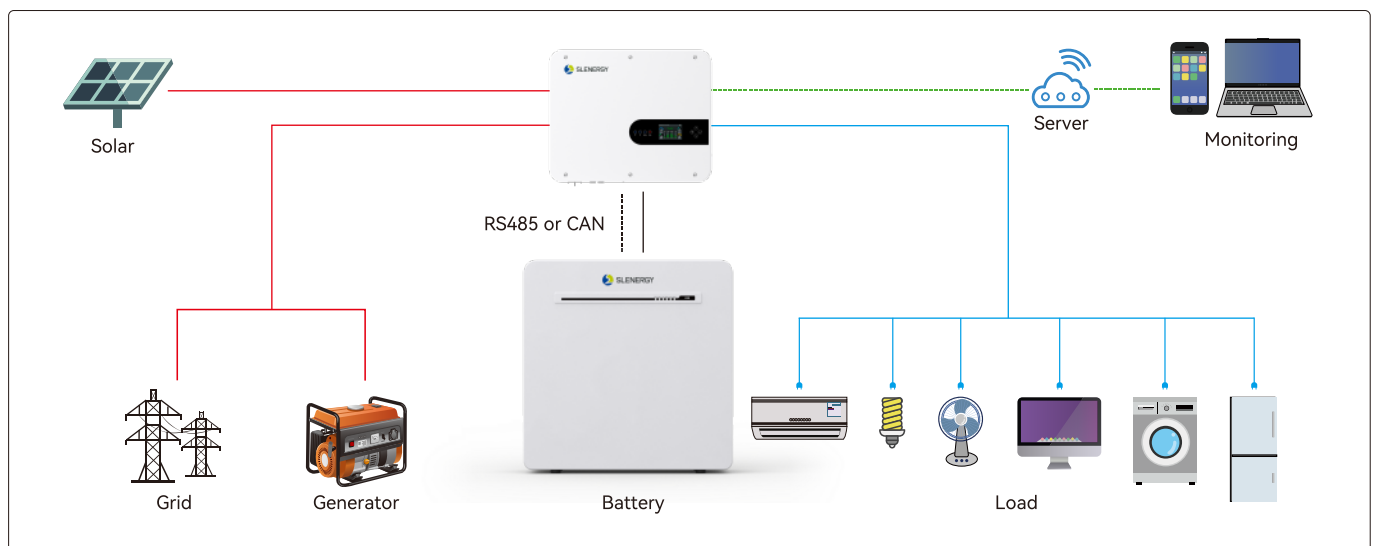
3.6kW-6kW

+Low Voltage Battery System

5.12kWh-10.24kWh



Application System





SLENERGY

SL3.6-6KLV-W

Single Phase Low Voltage Hybrid Inverter



Efficient

- Max. charging/ discharging current of 135A;
- DC/AC ratio up to 1.6;
- Support Max. 16pcs Parallel;
- MPPT Max. input current up to 18A;



Reliable

- Type II SPD on DC/AC sides;
- Equalization charge to improve battery performance and lifespan;
- IP65 protection degree;
- < 10ms on-grid and off-grid switching time;



Flexible

- Support Smart Load function;
- Support RS485/WIFI communication modes;
- Support upgrade remotely via USB port;
- Support diesel generator connection;



User-friendly

- Better human-machine interaction experience;
- Colorful touch LCD screen;
- Plug-Play design for easy installation and maintenance;
- Integrated die-casting front cover;

Model	SL3.6KLV-W	SL5KLV-W	SL6KLV-W
PV (DC)			
Recommended Max. PV Input Power	5760 Wp	8000 Wp	9600 Wp
Max. Input Voltage		500 V	
Start-up Voltage		125 V	
Rated Input Voltage		370 V	
MPPT Input Voltage Range		150-430 V	
MPPT Max. Input Current		18 A	
MPPT Short-circuit Current		20 A	
No. of MPPT		2	
No. of Strings per MPPT		1	
Grid (AC)			
Max. Input Apparent Power	7590 VA	7590 VA	9200 VA
Rated Output Power	3600 W	5000 W	6000 W
Max. Output Apparent Power	3960 VA	5500 VA	6600 VA
Rated AC Voltage		L/N/PE 230 V	
Input/Output Voltage Range		180-300 V	
Rated Output Voltage Frequency		50/60 Hz	
Input/Output Voltage Frequency Range		(45-55)/(55-65) Hz	
Rated Output Current	15.7 A	21.7 A	26.1 A
Max. Input/Output Current	33 / 17.2 A	33 / 23.9 A	40 / 28.7 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	3600 W	5000 W	6000 W
Max. Output Apparent Power	3960 VA	5500 VA	6600 VA
Rated Output Voltage		L/N/PE 230 V	
Output Voltage Range		200-240 V	
Rated Output Frequency		50/60 Hz	
Rated Output Current	15.7 A	21.7 A	26.1 A
Max. Output Current	17.2 A	23.9 A	28.7 A
Total Harmonic Distortion		<3% (Rated Power)	
On-grid/Off-grid Switching Time		<10 ms	
Battery (DC)			
Rated Output Power	3600 W	5000 W	6000 W
Max.Charge/Discharge Power	3600 W	5000 W	6000 W
Rated Voltage		48 V	
Battery Voltage Range		40-60 V	
Max. Charge/Discharge Current	90 A	120 A	135 A
Communication Port		CAN/RS485	
Efficiency			
Max. Efficiency		97.6%	
Max. MPPT Efficiency		99.9%	
Max. European Efficiency		96.5%	
Protection			
Integrated Protection	Anti-countercurrent Protection; Insulation Impedance Detection; Photovoltaic Reverse Connection Protection; Input DC Switch; GFCI Leakage Current Detection; Output Short-circuit Protection; Output Overcurrent Protection; Grid Monitoring; Islanding Protection; Residual Current Detection; Off-grid Overload		
Surge Protection	DC Type II, AC Type II		
Display and Communication			
Display	LCD+LED+APP		
Communication	RS485, WiFi (Optional)		
General Data			
Dimensions (WxHxD)	492x400x220 mm		
Weight	21 kg		
Operating Temperature Range	-25°C...60°C(Greater than 45°C Derating)		
Noise	<35 dB		
Cooling	Smart Cooling		
Installation Style	Wall-mounted		
Protection Rating	IP65		
Warranty	5 Years		
Standards Compliance			
Grid Connection	IEC 62116, IEC 61727, NRS 097-2-1, IEC 61683		
Safety Regulation	EN/IEC 62109-1/2		
Others	EN/IEC 61000-6-1/3		

SL5.12-10.24LB NEW

Low Voltage Battery System



Product Feature

User friendly

- Get started quickly and use it instantly;
- Min. width of just 20cm, saving space in the home;

Easy to install

- Supports wall or floor mounting;
- Plug-and-play, Wiring can be done from either side;
- Easy to upscale, Up to 10 in parallel connection;

Safety

- High quality lithium iron phosphate cells;
- Proven Li-ion battery management solutions;

Model	SL5.12LB	SL10.24LB
Electrical Parameter		
Battery Type	LiFePO4	
Battery Capacity per Kit	5.12 kWh	10.24 kWh
Usable Energy	4.6 kWh	9.2 kWh
Rated Voltage	51.2 V	
Voltage range	44.8V-57.6V	
Max. Charging and Discharging Rate	100 A	200 A
Depth Of Discharge [DOD]	≤90%	
Cycle Life (25°Cc, 0.5C)	≥6000 times, 80% Capacity retention	
Scalability	Yes	
General Data		
Communication Mode	RS485/CAN2.0	
Operating Temperature Range	0°C-50°C (Charge) / -10°C-50°C (Discharge)	
Storage Temperature Range	-15°C-60°C	
Cooling Method	Natural Convection	
Altitude	< 1000 m	
Ambient Humidity	20 % ~ 95 % (non-condensing)	
Noise[dBA]	< 25 dB	
Ingress Protection	IP20	
Dimensions [W*H*D]	550*550*167 mm	560*750*191 mm
Weight	50 kg	88kg
Installation Methods	Floor Standing, Wall Mounted, Rack Mounted (SL5.12LB)	Floor Standing