



# 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;

Model	SL3KLH-W	SL3.6KLH-W	SL4.6KLH-W	SL5KLH-W	SL6KLH-W	SL8KLH-W	SL10KLH-W	
<b>PV (DC)</b>								
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	
<b>Grid (AC)</b>								
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							
<b>AC Load Output (Off-grid)</b>								
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							
<b>Battery (DC)</b>								
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							
<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, 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							
<b>Display and Communication</b>								
Display	LED+APP							
Communication	RS485 / WiFi, 4G (Optional)							
<b>General Data</b>								
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							
<b>Standards Compliance</b>								
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							

\*Recommended PV power should be considered by battery capacity 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.