

# SL3-8KLH-W

## Single Phase 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;
- DC/AC ratio up to 2.6. ;



### 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
<b>PV (DC)</b>						
Max. PV Input Power*	7000 Wp	7000 Wp	12600 Wp	13000 Wp	14000 Wp	16000 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					
Rated Output Power	3000 W	3680 W	4600 W	5000 W	6000 W	8000 W
Max. Output Apparent Power	3000 VA	3680 VA	4600 VA	5000 VA	6000 VA	8000 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
Max. Input/Output Current***	45 / 16 A	45 / 18 A	45 / 23 A	45 / 25 A	45 / 28 A	55 / 36 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
Max. Output Apparent Power	10000 VA@600s					
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
Max. Output Current	45 A					
Total Harmonic Distortion	< 3% (R Load)					
On-grid/Off-grid Switching Time	<10 ms					
<b>Battery (DC)</b>						
Max.Charge/Discharge Power	8000 W / 8000 W					
Battery Voltage Range	85-460 V <sub>DC</sub>					
Max. Charge/Discharge Current	32A / 32 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, 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	<30 dB					
Cooling	Natural convection					
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, RD1699/661/413/244/2019, VDE 4105/0126, UNE 206006/206007, NTS Type A, UNE 217002/217001					
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.