

# SL8-12KRV-W

## Three Phase Low Voltage Hybrid Inverter



### Efficient

- Max. charging/ discharging current of 250A;
- DC/AC ratio up to 1.5;
- Support Max. 16pcs Parallel;
- MPPT Max. input current up to 16A, 1.5 overloading input on PV side;



### Flexible

- Support Smart Load function;
- Support RS485,4G (Optional),WiFi (Optional) communication modes;
- Support upgrade remotely via USB port;
- Support diesel generator connection;



### Reliable

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



### 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	SL8KRV-W	SL10KRV-W	SL12KRV-W
<b>PV (DC)</b>			
Max. PV Input Power	12000 W	15000 W	18000 W
Max. Input Voltage*		800 V	
Start-up Voltage		160 V	
Rated Input Voltage		550 V	
MPPT Input Voltage Range*		200-650 V	
MPPT Max. Input Current	16 A		16/32 A
MPPT Max. Short-circuit Current	20 A		20/40 A
No. of MPPT		2	
No. of Strings per MPPT	1+1		2+1
<b>Grid (AC)</b>			
Max. Input Apparent Power**	16000 VA	20000 VA	24000 VA
Rated Output Power	8000 W	10000 W	12000 W
Max. Output Apparent Power	8800 VA	11000 VA	13200 VA
Rated AC Voltage		3L/N/PE, 230/400 V	
Input/Output Voltage Range		180-300 / 230 V	
Rated Output Voltage Frequency		50 / 60 Hz	
Input/Output Voltage Frequency Range		(45-55) / (55-65) Hz	
Rated Output Current	12.1 A	15.2 A	18.2 A
Max. Input/Output Current	24.2 / 13.3 A	30.4 / 16.7 A	36.4 / 20 A
Power Factor (Rated)		>0.99	
Power Factor Range (Adjustable)		0.8 leading ... 0.8 lagging	
Total Harmonic Distortion		<5% (Rated Power)	
Grid Connection Mode		3L/N/PE	
<b>AC Load Output (Off-grid)</b>			
Rated Output Power	8000 W	10000 W	12000 W
Max. Output Apparent Power	8800 VA	11000 VA	13200 VA
Rated Output Voltage		3L/N/PE, 230/400 V	
Rated Output Frequency		50 / 60 Hz	
Rated Output Current	12.1 A	15.2 A	18.2 A
Max. Output Current	13.3 A	16.7 A	20 A
Total Harmonic Distortion		< 3% (R Load)	
On-grid/Off-grid Switching Time		< 10 ms	
<b>Battery (DC)</b>			
Battery Type		Lead-acid battery / Lithium battery	
Rated Battery Voltage		48 V	
Battery Voltage Range		40-60 V	
Rated Output Power	8000 W	10000 W	12000 W
Max.Charge/Discharge Power	8000 W	10000 W	12000 W
Max. Charge/Discharge Current	167A	208A	250A
Communication Port		CAN / RS485	
<b>Efficiency</b>			
Max. Efficiency		97.6%	
Max. MPPT Efficiency		99.9%	
Max. Euro 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, Off-grid Overload Protection.		
Surge Protection	DC Type II / AC Type II		
<b>Display and Communication</b>			
Display	LCD+LED+APP		
Communication	RS485, 4G (Optional) , WiFi (Optional)		
<b>General Data</b>			
Dimensions (WxHxD)	580 x 488 x 255mm (Handle free)		
Weight	≤35 kg		
Operating Temperature Range	-30~60 °C		
Noise	<45 dB		
Cooling	Smart Cooling		
Installation Style	Wall-mounted		
Protection Rating	IP65		
Warranty	5 Years		
<b>Standards Compliance</b>			
Grid Connection	IEC 62116, IEC 61727, NRS 097-2-1		
Safety Regulation	EN/IEC 62109-1/2		
Others	EN/IEC 61000-6-1/3, IEC 61683		
Based on market requirements of standards compliance in South Africa and Pakistan			

\* Max PV input voltage is 1000V without battery, 850V with battery. If the voltage is greater than 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.