

SL29.9-50KRH-W NEW

C&I Hybrid Inverter



Flexible Design & Use

- 4 MPPT inputs, DC 40A current input, compatible with highpower PV module;
- Provides 130% power to unbalance loads in backup mode & Grid mode;
- Supports application in retrofit scenario;
- Switching time <10ms;
- 135~800 V wide battery voltage range;
- Generator input is supported;



Energy Independence

- 3 battery inputs, Fast charging / discharging to meet the demand of higher consumption;
- 110% continuous AC output overloading;
- 130% max. AC output overloading @85s;



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 customisable settings
- Free online monitoring to enhance energy management for end user, installer and retailer
- Programmable supply priority for PV, Battery or Grid
- Remote BMS firmware update;

Model	SL29.9KRH-W	SL30KRH-W	SL35KRH-W	SL40KRH-W	SL50KRH-W
PV (DC)					
Recommended Max. PV Input Power	38870 Wp	39000 Wp	45500 Wp	52000 Wp	65000 Wp
Max. Input Voltage	1000 V				
Start-up Voltage	135 V				
Rated Input Voltage	600 V				
MPPT Input Voltage Range	135-900 V				
MPPT Max. Input Current	40A / 40 A / 40A			40A / 40 A / 40A / 40 A	
MPPT Short-circuit Current	50A / 50 A / 50A			50A / 50 A / 50A / 50 A	
No. of MPPT	3			4	
No. of Strings per MPPT	2/2/2			2/2/2/2	
Grid (AC)					
Max. Input Apparent Power	59800 VA	60000 VA	70000 VA	80000 VA	100000 VA
Rated Output Power	29900 W	30000 W	35000 W	40000 W	50000 W
Max. Output Apparent Power	32890 VA	33000 VA	38500 VA	40000 VA	55000 VA
Rated AC Voltage	230/400V				
Input/Output Voltage Range	180-300 V / 200-253 V				
Rated Output Voltage Frequency	50 / 60 Hz				
Input/Output Voltage Frequency Range	(45-55) ; (55-65) Hz				
Rated Output Current	43.33 A	43.48 A	50.72 A	57.97 A	72.5 A
Max. Input/Output Current	90.6 A / 58.89 A	90.9 A / 59.09 A	106.1 A / 68.94 A	121.2 A / 78.79 A	151.5 A / 98.48 A
Power Factor (Rated)	>0.99				
Power Factor (Adjustable)	0.8 leading ... 0.8 lagging				
Total Harmonic Distortion	<3% (Rated Power)				
Grid Connection Mode	3L/N/PE				
AC Load Output (Off-grid)					
Rated Output Power	29900 W	30000 W	35000 W	40000 W	50000 W
Max. Output Apparent Power	32890 W	33000 W	38500 W	44000 W	55000 W
Rated Output Voltage	230/400 V				
Output Voltage Range	180-300 V / 200-253 V				
Rated Output Frequency	50/60 Hz				
Rated Output Current	43.33 A	43.48 A	50.72 A	57.97 A	72.5 A
Max. Output Current	58.89 A	59.09 A	68.94 A	78.79 A	98.48 A
Total Harmonic Distortion	< 3% (R Load)				
On-grid/Off-grid Switching Time	<10 ms				
Battery (DC)					
Rated Output Power	29900 W	30000 W	35000 W	40000 W	50000 W
Max.Charge/Discharge Power	29900 W/32890 W	30000 W/33000 W	35000 W/38500 W	40000 W/44000 W	50000 W/55000 W
Rated Voltage	210 V	210 V	245 V	280 V	350 V
Battery Voltage Range	135-800 V				
Max. Charge/Discharge Current	150 A / 150 A				
Communication Port	CAN / RS485				
Efficiency					
Max. Efficiency	97.6%				
Max. MPPT Efficiency	99.9%				
Max. Euro Efficiency	97.0%				
Protection					
Integrated Protection	LVRT/HVRT,Anti-islanding protection,AC short circuit protection,Leakage current protection, Insulation Resistance Monitoring,PV reverse protection,RSD,Arc fault protection,DC switch (solar), DC fuse (battery),Surge protection device,Battery reverse protection.				
Surge Protection	DC Type II, AC Type II				
Display and Communication					
Display	LED+APP				
Communication	Yes: RS485/USB, Optional: 4G/WiFi				
General Data					
Dimensions (WxHxD)	704 x 590 x 290 mm				
Weight	80 kg				
Operating Temperature Range	-30~60°C				
Noise	<65 dB				
Cooling	Intelligent air cooling				
Installation Style	Wall-mounted				
Ingress Protection Rating	IP66				
Warranty	5 Years (10 Years Optional)				
Standards Compliance					
Grid Connection	NB/T 32004, EN 50549-1, CEI 0-21, VDE-AR-N 4105, NTS Type A&B, RD 1699/661/413/647/244/2019, UNE 206006/206007/217001/217002				
Safety Regulation	EN/IEC 62109-1/2				
Others	EN/IEC 61000-6-1/2/3/4				