

Single-phase Hybrid Inverter HI-8~12K-SL



- Wide DC working voltage range, 4 MPPT design, adapt to multi-angle and multi-orientation PV panels
- Up to 98% conversion efficiency with lower losses
- IP66 Waterproof design, indoor & outdoor use
- One machine for multiple purposes: On-grid+Energy storage+Off-grid
- Support the diesel generator and the grid access at the same time
- Up to 7 Intelligent working modes, support remote monitoring on APP/Web
- Support for lead-acid, lithium batteries, but also to specify the brand of battery adaptation communication
- 5-year standard warranty and 10-year extended warranty
- Colorful touch LCD (4.3/7 inch optional)



Technical Data	HI-8K-SL	HI-10K-SL	HI-12K-SL
PV String Input Data			
Max. PV access power	16kW	20kW	24kW
Max. PV input power	12.8kW	16kW	19.2kW
Max. PV input voltage	600V		
Nominal input voltage	360V		
MPPT working voltage range	80V-500V		
Number of independent MPPT / strings per MPPT	4/1		
MPPT max. current	4*20A		
Start-up voltage	100V		
AC Output/Input Data (On-grid)			
Nominal apparent power	8kW	10kW	12kW
Max. apparent power	8.8kVA	11kVA	13.2kVA
Nominal voltage	220V/230V		
Nominal frequency	50Hz/60Hz		
Rated current	36.4A/34.7A	45.5A/43.4A	54.5A/52.2A
Max. current	40A	50A	60A
Power factor	-0.8~+0.8(adjustable)		
THDi	<3%(Nominal Output)		
Grid system pattern	L+N+PE		
Max. AC current from utility grid	100A		
Back-up Output Data (UPS)			
Nominal output power	8kW	10kW	12kW
Max. output apparent power	8.8kVA	11kVA	13.2kVA
Nominal output voltage	220V/230V		
Nominal output frequency	50Hz/60Hz		
Output THDV	<3%		
Automatic switch time	<10ms		
Battery Input Data			
Battery type	Li-Ion/Lead-acid		
Battery voltage range	40V-60V		
Max. charging/discharging current	190A	210A	240A
Charging strategy for Li-Ion battery	Self-adaption to BMS		
Charging strategy for Lead-acid battery	Three-stage		
Efficiency			
Max. MPPT efficiency	99.9%		
Europe efficiency	97.5%		
Max. battery to load efficiency	94.5%		
Protection			
Anti islanding protection	Yes		
Insulation impedance protection	Yes		
RCD detection	Yes		
PV reverse polarity protection	Yes		
Output over voltage protection	Yes		
Output over current protection	Yes		
General Data			
Dimensions(L/W/H)in mm	425/290/660		
Weight	39kg		
Operation temperature range	-25°C~+60°C		
Heat dissipation mode	Smart cooling		
IP Class	IP 66		
Maximum altitude	4000m		
Self-Consumption night	<3w		
Topology	Transformerless		
Features			
LCD display	Yes		
Communication interface	WiFi/4G/USB/CAN/RS485		
Standards	EN 62109/EN 62477/EN IEC 61000/CEI 0-21/NTS-631/RD647/UNE 217001 UNE 217002/VDE 4105/IEC 61727/IEC 62116/IEC 61683/EN 50549/G98 G99/NRS 097/UTE C 15/VDE V 0126		