

Single-phase Hybrid Inverter HI-3~6K-SL



- Wide DC working voltage range, 2 MPPT design, adapt to multi-angle and multi-orientation PV panels
- Up to 98% conversion efficiency with lower losses
- IP65 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-3K-SL	HI-3.6K-SL	HI-4K-SL	HI-5K-SL	HI-6K-SL
PV String Input Data					
Max. DC input power	7kW	7kW	9kW	9kW	9kW
Max. DC input voltage	550V				
Nominal input voltage	360V				
MPPT working voltage range	90V-500V				
Number of independent MPPT/strings per MPPT	2/1				
MPPT max. current	20A/20A				
Start-up voltage	100V				
AC Output/Input Data (On-grid)					
Nominal output apparent power	3kW	3.6kW	4kW	5kW	6kW
Max. output apparent power	3.3kVA	4kVA	4.4kVA	5.5kVA	6.6kVA
Nominal output voltage	230V/180V-280V				
Nominal output frequency	50Hz/60Hz				
Rated output current	13A	15.6A	18A	22A	26A
Max. output current	14A	17A	19A	24A	29A
Power factor	-0.8~+0.8 (adjustable)				
THDi	<3%(Nominal Output)				
Grid system pattern	L+N+PE				
Max.apparent power from utility grid	6kVA	7.2kVA	8kVA	10kVA	11kVA
Max.AC current from utility grid	26A	31.5A	35A	43.5A	48A
Back-up Output Data (UPS)					
Nominal output apparent power	3kVA	3.6kVA	4kVA	5kVA	6kVA
Max. output apparent power	4kVA,10s	4.6kVA,10s	5kVA,10s	6kVA,10s	7kVA,10s
Nominal output voltage	208V,220V,230V,240V				
Nominal output frequency	50Hz/60Hz				
Output THDV	<3%				
Automatic switch time	<10ms				
Battery Input Data					
Battery type	Li-ion/Lead-acid				
Battery voltage range	42V-59V				
Max. charging/discharging current	80A	80A	100A	100A	100A
Charging strategy for Li-ion battery	Self-adaption to BMS				
Efficiency					
Max. efficiency	98%				
Europe efficiency	97.5%				
Max. battery to load efficiency	94%				
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	375/250/363				
Weight	20kg				
Operation temperature range	-25°C~60°C				
Heat dissipation mode	Natural				
IP Class	IP 65				
Maximum altitude	4000m				
Self-Consumption night	<3W				
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				