

## 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
<b>PV String Input Data</b>					
Max. PV access power	6kW	7.2kW	8kW	10kW	12kW
Max. PV input power	4.8kW	5.8kW	6.4kW	8kW	9.6kW
Max. PV input voltage	550V				
Nominal input voltage	360V				
MPPT working voltage range	80V-500V				
Number of independent MPPT/strings per MPPT	2/1				
MPPT max. current	15A/15A				
Start-up voltage	100V				
<b>AC Output/Input Data (On-grid)</b>					
Nominal apparent power	3kW	3.6kW	4kW	5kW	6kW
Max. apparent power	3.3kVA	4kVA	4.4kVA	5.5kVA	6.6kVA
Nominal voltage	220V/230V				
Nominal frequency	50Hz/60Hz				
Rated current	13.6A/13A	16.3A/15.6A	18.2A/17.4A	22.7A/21.7A	27.3A/26A
Max. current	15A	18A	20A	25A	30A
Power factor	-0.8~+0.8 (adjustable)				
THDi	<3%(Nominal Output)				
Grid system pattern	L+N+PE				
Max. AC current from utility grid	50A				
<b>Back-up Output Data (UPS)</b>					
Nominal output power	3kW	3.6kW	4kW	5kW	6kW
Max. output apparent power	3.3kVA	4kVA	4.4kVA	5.5kVA	6.6kVA
Nominal output voltage	220V/230V				
Nominal output frequency	50Hz/60Hz				
Output THDV	<3%				
Automatic switch time	<10ms				
<b>Battery Input Data</b>					
Battery type	Li-ion/Lead-acid				
Battery voltage range	40V-60V				
Max. charging/discharging current	75A	90A	100A	100A	100A
Charging strategy for Li-ion battery	Self-adaption to BMS				
<b>Efficiency</b>					
Max. MPPT efficiency	99.9%				
Europe efficiency	97.5%				
Max. battery to load efficiency	94%				
<b>Protection</b>					
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				
<b>General Data</b>					
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				
<b>Features</b>					
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				