

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



-  Supports up to 10-unit parallel operation in both on-grid and off-grid modes, featuring scalable capacity.
-  Equipped with GEN port, compatible with diesel generators, smart loads, and AC coupling.
-  IP65 rated enclosure, designed for both indoor and outdoor deployment in harsh environments.
-  Supports 7 intelligent working modes and automatically switch within 10ms.
-  Supports setting 9 periods, including three periods each for self-consumption, battery charge, and battery discharge.
-  Silent fanless design with zero-maintenance reliability.

Technical Data	HI-3K-SL	HI-3.6K-SL	HI-4K-SL	HI-5K-SL	HI-6K-SL
Input DC (PV side)					
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	20A/20A				
Start-up voltage	100V				
Output/Input AC (Grid side)					
Nominal 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				
Output AC (Back-up)					
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 ouput frequency	50Hz/60Hz				
Output THDV	<3%				
Automatic switch time	<10ms				
Battery					
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				
Efficiency					
Max. MPPT efficiency	99.9%				
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	375/265/363				
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	IEC/EN 62109, IEC/EN 62477, IEC/EN 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 0126				