

Single Phase Hybrid Inverter

HI-3K-SL/HI-3.6K-SL/HI-4K-SL/HI-5K-SL/HI-6K-SL



Stable

Fanless design to prolong lifespan;
Ip65 alloy enclosure; Full auto-protection.



Smart UPS

Smart LCD display;
Plug & Play, seamless switching under 10ms;
Sufficient backup power for emergency use.



Flexible

Up to 6 unites parallel;
Single phase and unbalanced three phase paralleling;
No limits on cable length connecting to battery or AC.



Intelligent working modes

Self consumption mode for high tariff areas;
Charge priority mode for areas where grid power is unstable; Peak-load shifting mode for areas where tariff varies by time.



Easy use

Light, quick and easy installation;
Free & handy monitoring on mobile/PC;
Multiple phases output on different hybrid models;
Multiple ports: 4*RS485, 2*CAN, USB, Dry-contact;
USB upgrade.



Easy to use with battery

Higher charging and discharging current;
Wide range of compatible battery brands;
Wake up lithium battery from sleep mode;
Essential info uploaded to INHE server for quick ESS diagnosis.

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	4500W	5400W	6000W	7500W	9000W
Max. DC input voltage	550V				
Operation voltage range	80V-550V				
MPPT working voltage range	90V-550V				
Number of independent MPPT / strings per MPPT	2/1+1				
MPPT max. current	15A/15A				
Start-up voltage/Min.operating voltage	100V/80V				
AC Output/Input Data (On-grid)					
Nominal output apparent power	3000W	3600W	4000W	5000W	6000W
Max. output apparent power	3300VA	4000VA	4400VA	5500VA	6600VA
Nominal output voltage	230V/180V-280V				
Nominal output frequency	50Hz,60Hz/±5Hz				
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	6000VA	7200VA	8000VA	10000VA	12000VA
Max.AC current from utility grid	28A	32A	38A	48A	58A
Back-up Output Data (UPS)					
Peak output apparent power	4000VA,10s	4600VA,10s	5000VA,10s	6000VA,10s	7000VA,10s
Nominal output apparent power	3000VA	3600VA	4000VA	5000VA	6000VA
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				
Nominal battery voltage	48V				
Battery voltage range	40V-60V				
Max. charging voltage	58V(Configurable)				
Max. charging/discharging current	70A	80A	100A	100A	100A
Battery capacity(AH)	50-2000				
Charging strategy for Li-Ion battery	Self-adaption to BMS				
Charging strategy for Lead-acid Battery	Three-stage				
Efficiency					
Max. efficiency	98%	98%	98%	98%	98%
Europe efficiency	97.5%	97.5%	97.5%	97.5%	97.5%
Max. battery to load efficiency	94%	94%	94%	94%	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(W/L/H)in mm	375/365/240				
Weight	20kg				
Noise	<25dB				
Operation temperature range	-25°C~+60°C				
Heat dissipation mode	Natural				
IP Class	IP 65				
Maximum altitude	4000m				
Self-Consumption night	<3w				
Topology	Transformerless				
Features					
LCD display	Yes				
Communication interface	WiFi/4G/USB/CAN/RS485				
Warranty	5years (standard)				
Standards	CE,G83/G59,VDE0126-1-1,AS4777,AS/NZS3100,CEI 0-21,VDE-AR-N4105				