



Power the World with Sunlight

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;
Multi 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.



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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	8000W	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		