

Single Phase Hybrid Inverter

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



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 units 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.

Technical Data	HI-3K-SH	HI-3.6K-SH	HI-4K-SH	HI-5K-SH	HI-6K-SH
PV String Input Data					
Max. DC input power	7000W	7000W	9000W	9000W	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 ouput 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 ouput frequency	50Hz/60Hz				
Output THDV	<3%				
Automatic switch time	<10ms				
Battery Input Data					
Battery type	Li-Ion				
Nominal battery voltage	300V				
Battery voltage range	85V-450V				
Max. charging voltage	450V(Configurable)				
Max. charging/discharging current	30A	30A	30A	30A	30A
Battery capacity(AH)	50-2000				
Charging strategy for Li-Ion battery	Self-adaption to BMS				
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	97%	97%	97%	97%	97%
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	329/403/240				
Weight	16kg				
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				
Standards	EN 62109-1/EN 62109-2/EN 62477-1/IEC 61000-6-1/IEC 61000-6-3/CEI 0-21/ UNE 217001/UNE 217002/VDE 0126/IEC 61727/IEC 62116/EN 50549-1/G98/G99/AS 4777.2				

Three Phase Hybrid Inverter

HI-5K-TH/HI-6K-TH/HI-8K-TH/HI-10K-TH/HI-12K-TH



Stable

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



Smart UPS

Smart LCD display;
Plug & Play, seamless switching under 20ms;
Sufficient backup power for emergency use.



Flexible

Up to 6 units parallel;
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.

Technical Data	HI-5K-TH	HI-6K-TH	HI-8K-TH	HI-10K-TH	HI-12K-TH
PV String Input Data					
Max. DC input power	7500W	9000W	12000W	15000W	18000W
Max. DC input voltage	1100V				
Nominal input voltage	600V				
MPPT working voltage range	180V-1000V				
Number of independent MPPT / strings per MPPT	2/1+1				
MPPT max. current	20A/20A				
Start-up voltage/Min.operating voltage	200V/180V				
AC Output/Input Data (On-grid)					
Nominal output apparent power	5000W	6000W	8000W	10000W	12000W
Max. output apparent power	5500VA	6600VA	8800VA	11000VA	13200VA
Nominal output voltage	400V±20%				
Nominal ouput frequency	50Hz,60Hz/±5Hz				
Max. output current	8A	10A	13A	16A	19A
Power factor	-0.8~+0.8(adjustable)				
THDi	<3%(Nominal Output)				
Grid system pattern	3L+N+PE				
Max.apparent power from utility grid	11000VA	12000VA	16000VA	20000VA	24000VA
Max.AC current from utility grid	16A	20A	26A	32A	40A
Back-up Output Data (UPS)					
Peak output apparent power	5500VA,10s	6600VA,10s	8800VA,10s	11000VA,10s	13200VA,10s
Nominal output apparent power	5000VA	6000VA	8000VA	10000VA	12000VA
Nominal output voltage	400V±20%				
Nominal ouput frequency	50Hz/60Hz				
Output THDV	<3%				
Automatic switch time	<20ms				
Battery Input Data					
Battery type	Li-Ion				
Battery voltage range	150V-600V				
Max. charging/discharging current	25A	25A	25A	25A	25A
Battery capacity(AH)	50-2000				
Charging strategy for Li-Ion battery	Self-adaption to BMS				
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	98%	98%	98%	98%	98%
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	403/465/285				
Weight	20kg				
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				
Standards	EN 62109-1/EN 62109-2/EN 62477-1/IEC 61000-6-1/IEC 61000-6-3/CEI 0-21/UNE 217001/UNE 217002/VDE 0126/IEC 61727/IEC 62116/EN 50549-1/G98/G99/AS 4777.2				

Three Phase Hybrid Inverter

HI-15K-TH/HI-20K-TH



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USB upgrade.



Easy to use with battery

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Technical Data	HI-15K-TH	HI-20K-TH
PV String Input Data		
Max. DC input power	23000W	30000W
Max. DC input voltage	1100V	
Nominal input voltage	600V	
MPPT working voltage range	180V-1000V	
Number of independent MPPT / strings per MPPT	2/1+1	
MPPT max. current	30A/30A	
Start-up voltage/Min.operating voltage	200V/180V	
AC Output/Input Data (On-grid)		
Nominal output apparent power	15000W	20000W
Max. output apparent power	16500VA	22000VA
Nominal output voltage	400V±20%	
Nominal output frequency	50Hz,60Hz±5Hz	
Max. output current	24A	32A
Power factor	-0.8~+0.8(adjustable)	
THDi	<3%(Nominal Output)	
Grid system pattern	3L+N+PE	
Max.apparent power from utility grid	30000VA	40000VA
Max.AC current from utility grid	48A	64A
Back-up Output Data (UPS)		
Peak output apparent power	16500VA,10s	22000VA,10s
Nominal output apparent power	15000VA	20000VA
Nominal output voltage	400V±20%	
Nominal output frequency	50Hz/60Hz	
Output THDV	<3%	
Automatic switch time	<20ms	
Battery Input Data		
Battery type	Li-Ion	
Battery voltage range	150V-600V	
Max. charging/discharging current	50A	50A
Battery capacity(AH)	50-2000	
Charging strategy for Li-Ion battery	Self-adaption to BMS	
Efficiency		
Max. efficiency	98%	98%
Europe efficiency	97.5%	97.5%
Max. battery to load efficiency	98%	98%
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	403/465/285	
Weight	23kg	
Operation temperature range	-25°C~+60°C	
Heat dissipation mode	Smart cooling	
IP Class	IP 65	
Maximum altitude	4000m	
Self-Consumption night	<3w	
Topology	Transformerless	
Features		
LCD display	Yes	
Communication interface	WiFi/4G/USB/CAN/RS485	
Standards	EN 62109-1/EN 62109-2/EN 62477-1/IEC 61000-6-1/IEC 61000-6-3/CEI 0-21/UNE 217001/UNE 217002/VDE 0126/IEC 61727/IEC 62116/EN 50549-1/G98/G99/AS 4777.2	

Three Phase Hybrid Inverter

HI-5K-TL/HI-6K-TL/HI-8K-TL/HI-10K-TL/HI-12K-TL



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USB upgrade.



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Technical Data	HI-5K-TL	HI-6K-TL	HI-8K-TL	HI-10K-TL	HI-12K-TL
PV String Input Data					
Max. DC input power	7500W	9000W	12000W	15000W	18000W
Max. DC input voltage	1100V				
Nominal input voltage	600V				
MPPT working voltage range	180V-1000V				
Number of independent MPPT / strings per MPPT	2/1+1				
MPPT max. current	20A/20A				
Start-up voltage/Min.operating voltage	200V/180V				
AC Output/Input Data (On-grid)					
Nominal output apparent power	5000W	6000W	8000W	10000W	12000W
Max. output apparent power	5500VA	6600VA	8800VA	11000VA	13200VA
Nominal output voltage	400V±20%				
Nominal ouput frequency	50Hz,60Hz/±5Hz				
Max. output current	8A	10A	13A	16A	19A
Power factor	-0.8~+0.8(adjustable)				
THDi	<3%(Nominal Output)				
Grid system pattern	3L+N+PE				
Max.apparent power from utility grid	11000VA	12000VA	16000VA	20000VA	24000VA
Max.AC current from utility grid	16A	20A	26A	32A	40A
Back-up Output Data (UPS)					
Peak output apparent power	5500VA, 10s	6600VA, 10s	8800VA, 10s	11000VA, 10s	13200VA, 10s
Nominal output apparent power	5000VA	6000VA	8000VA	10000VA	12000VA
Nominal output voltage	400V±20%				
Nominal ouput frequency	50Hz/60Hz				
Output THDV	<3%				
Automatic switch time	<20ms				
Battery Input Data					
Battery type	Li-Ion /Lead-acid				
Battery voltage range	42V-59V				
Max. charging/discharging current	100A	120A	160A	200A	240A
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	98%	98%	98%	98%	98%
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	403/515/285				
Weight	25kg				
Operation temperature range	-25°C~+60°C				
Heat dissipation mode	Smart cooling				
IP Class	IP 65				
Maximum altitude	4000m				
Self-Consumption night	<3w				
Topology	Transformerless				
Features					
LCD display	Yes				
Communication interface	WiFi/4G/USB/CAN/RS485				
Standards	EN 62109-1/EN 62109-2/EN 62477-1/IEC 61000-6-1/IEC 61000-6-3/CEI 0-21/UNE 217001/UNE 217002/VDE 0126/IEC 61727/IEC 62116/EN 50549-1/G98/G99/AS 4777.2				