

Three Phase Hybrid Inverter

HI-15K-TH/HI-20K-TH/HI-25K-TH



Stable

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-15K-TH	HI-20K-TH	HI-25K-TH
PV String Input Data			
Max. DC input power	23000W	30000W	37500W
Max. DC input voltage		1000V	
Nominal input voltage		600V	
MPPT working voltage range		180V-950V	
Number of independent MPPT / strings per MPPT		2/2+2	
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	25000W
Max. output apparent power	16500VA	22000VA	25000VA
Nominal output voltage		400V±20%	
Nominal output frequency		50Hz,60Hz±5Hz	
Max. output current	24A	32A	36.3A
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	50000VA
Max.AC current from utility grid	48A	64A	72.6A
Back-up Output Data (UPS)			
Peak output apparent power	16500VA,10s	22000VA,10s	25000VA,10s
Nominal output apparent power	15000VA	20000VA	25000VA
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-750V	
Max. charging/discharging current	50A	50A	50A
Battery capacity(AH)		50-2000	
Charging strategy for Li-Ion battery		Self-adaption to BMS	
Efficiency			
Max. efficiency		98%	
Europe efficiency		97.5%	
Max. battery to load efficiency		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(L/W/H)in mm		403/284/463	
Weight		32kg	
Operation temperature range		-25°C~+60°C	
Heat dissipation mode		Smart cooling	
IP Class		IP 65	
Maximum altitude		3000m	
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	