

Three-phase
Hybrid Inverter
HI-40~60K-TH-US



- Wide DC working voltage range, 8 MPPT design, adapt to multi-angle and multi-orientation PV panels.
- Up to 98% conversion efficiency with lower losses; NEMA Type 4 Waterproof design, indoor& outdoor use.
- One machine for multiple purposes: On-grid + Energy storage + Off-grid.
- Support the diesel generator and the grid access at the same time.
- Up to 7 Intelligent working modes, support remote monitoring on mobile/PC.
- Support for lead-acid, lithium batteries, but also to specify the brand of battery adaptation communication.
- 5-year standard warranty and 10-year extended warranty.
- Colorful touch LCD (4.3/7 inch optional)

Technical Data	HI-40K-TH-US	HI-50K-TH-US	HI-60K-TH-US
Input DC (PV side)			
Max. PV access power	80kW	100kW	120kW
Max. PV input power	64kW	80kW	96kW
Max. PV input voltage		1000V	
Nominal input voltage		600V	
MPPT working voltage range		180V-850V	
Number of independent MPPT / strings per MPPT		8/3	
MPPT max. current		8*45A	
Start-up voltage		200V	
Output/Input AC (Grid side)			
Nominal apparent power	40kW	50kW	60kW
Max. apparent power	44kVA	55kVA	66kVA
Nominal voltage		120V/208V,127V/220V	
Nominal frequency		60Hz	
Rated current	111.1A/104A	138.8A/131.2A	166.6A/157.4A
Max. current	120A	152A	183A
Power factor		-0.8~+0.8(adjustable)	
THDi		<3%(Nominal Output)	
Grid system pattern		3L+N+PE	
Max.AC current from utility grid	300A	300A	300A
Output AC (Back-up)			
Nominal output apparent power	40kW	50kW	60kW
Max. output apparent power	44kVA	55kVA	66kVA
Nominal output voltage		120V/208V,127V/220V	
Nominal ouput frequency		60Hz	
Output THDV		3%	
Automatic switch time		<10ms	
Battery Input Data			
Battery type		Li-Ion	
Battery voltage range		200V-800V	
Max. charging/discharging current		2*100A/2*100A	
Charging strategy for Li-Ion battery		Self-adaption to BMS	
Efficiency			
Max. efficiency		99.9%	
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		1140/367/820	
Weight		137kg	
Operation temperature range		-25°C~+60°C	
Heat dissipation mode		Smart cooling	
NEMA Enclosure		Type 4	
Maximum altitude		4000m	
Self-Consumption night		<3w	
Topology		Transformerless	
Features			
LCD display		Yes	
Communication interface		WiFi/4G/USB/CAN/RS485	
Standards		UL 1741,IEEE 1547.1,SRD V2.0,FCC,RETIE,IEC 62109	