

Three-phase
Hybrid inverter
HI-5~12K-TL-US



- Wide DC working voltage range, 2 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 remote monitoring, remote upgrade and automatic battery management.
- 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-5K-TL-US	HI-6K-TL-US	HI-8K-TL-US	HI-10K-TL-US	HI-12K-TL-US
Input DC (PV side)					
Max. PV access power	10kW	12kW	16kW	20kW	24kW
Max. PV input power	8kW	9.6kW	13kW	16kW	20kW
Max. PV input voltage	1000V				
Nominal input voltage	600V				
MPPT working voltage range	180V-850V				
Number of independent MPPT / strings per MPPT	2/1	2/1	2/2	2/2	2/2
MPPT max. current	2*20A	2*20A	2*36A	2*36A	2*36A
Start-up voltage	200V				
Output/Input AC (Grid side)					
Nominal apparent power	5kW	6kW	8kW	10kW	12kW
Max.apparent power	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA
Nominal voltage	120V/208V,127V/220V				
Nominal frequency	60Hz				
Rated current	13.9A/13.1A	16.7A/15.7A	22.2A/21.1A	27.7A/26.2A	33.3/31.4A
Max.current	15.3A	18.3A	25A	30A	35A
Power factor	-0.8-+0.8(adjustable)				
THDi	<3%(Nominal Output)				
Grid system pattern	3L+N+PE				
Max.AC current from utility grid	60A	60A	60A	60A	60A
Output AC (Back-up)					
Nominal output apparent power	5kVA	6kVA	8kVA	10kVA	12kVA
Max. output apparent power	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA
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/Lead-acid				
Battery voltage range	40V-60V				
Max. charging/discharging current	120A	135A	190A	210A	240A
Charging strategy for Li-Ion battery	Self-adaption to BMS				
Efficiency					
Max. efficiency	99.9%				
Europe efficiency	97.5%				
Max. battery to load efficiency	94.5%				
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	425/290/710				
Weight	45kg				
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				