










# HI-5~12K-TL-US

## THREE-PHASE LOW-VOLTAGE HYBRID INVERTER



*IP66 Protection | Smart & Reliable Solar Energy Solution*

-  Compatible with 48V low-voltage battery systems
-  120/208V, 127/220V three-phase output
-  Support Smart load ,AC couple, GEN function
-  Supports battery charge/discharge currents up to 240A
-  IP66 protection level for reliable outdoor performance
-  Max. MPPT efficiency: 99.9%
-  Max. 10 pcs parallel for on grid & off grid
-  Wide BMS compatibility
-  Colorful touch screen

Technical Data	HI-5K-TL-US	HI-6K-TL-US	HI-8K-TL-US	HI-10K-TL-US	HI-12K-TL-US
<b>Input DC (PV side)</b>					
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				
<b>Output/Input AC (Grid side)</b>					
Nominal apparent power	5kW	6kW	8kW	10kW	12kW
Max. apparent power	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA
Nominal frequency and voltage	50Hz/60Hz, 3L/N/PE, 120/208V, 127/220V				
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	Three phase				
Max.AC current from utility grid	60A				
<b>Output AC (Back-up)</b>					
Nominal output apparent power	5kVA	6kVA	8kVA	10kVA	12kVA
Max. output apparent power	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA
Nominal output frequency and voltage	50Hz/60Hz, 3L/N/PE, 120/208V, 127/220V				
Output THDV	<3%				
Automatic switch time	<10ms				
<b>Battery Input Data</b>					
Battery type	Li-ion/Lead-acid				
Battery voltage range	40V-60V				
Max. charging/discharging current	120A	140A	190A	210A	240A
Charging strategy for Li-Ion battery	Self-adaption to BMS				