



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
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 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				
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 frequency and voltage	50Hz/60Hz, 3L/N/PE, 120/208V, 127/220V				
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	140A	190A	210A	240A
Charging strategy for Li-Ion battery	Self-adaption to BMS				