



HI-20~30K-TH-US

THREE-PHASE HIGH-VOLTAGE HYBRID INVERTER

IP66 Protection | Smart Energy Storage | Reliable Performance

-  Independent grid export control for each phase
-  Colorful touch screen for easy operation
-  Wide battery voltage range: 180V – 850V
-  Flexible output options: 120/208V, 127/220V three-phase
-  DC & AC coupling to retrofit existing solar systems
-  Compatible with diesel generator energy storage
-  Smart Wi-Fi monitoring for real-time control
-  IP66 protection level for reliable outdoor performance

Technical Data	HI-20K-TH-US	HI-25K-TH-US	HI-30K-TH-US
Input DC (PV side)			
Max. PV access power	40kW	50kW	60kW
Max. PV input power	32kW	40kW	48kW
Max. PV input voltage		1000V	
Nominal input voltage		600V	
MPPT working voltage range		180V-850V	
Number of independent MPPT / strings per MPPT		4/3	
MPPT max. current		4*45A	
Start-up voltage		200V	
Output/Input AC (Grid side)			
Nominal apparent power	20kW	25kW	30kW
Max. apparent power	22kVA	27.5kVA	33kVA
Nominal frequency and voltage	50Hz/60Hz, 3L/N/PE, 120/208V, 127/220V		
Rated current	55.5A/52.5A	69.4A/65.6A	83.3A/78.7A
Max. current	60A	77A	90A
Power factor		-0.8-+0.8(adjustable)	
THDi		<3%(Nominal Output)	
Grid system pattern		Three phase	
Max.AC current from utility grid		200A	
Output AC (Back-up)			
Nominal output apparent power	20kW	25kW	30kW
Max. output apparent power	22kVA	27.5kVA	33kVA
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	
Battery voltage range		200V-800V	
Max. charging/discharging current		2*50A/2*50A	
Charging strategy for Li-Ion battery		Self-adaption to BMS	