









HI-40~60K-TH-US

THREE-PHASE HIGH-VOLTAGE HYBRID INVERTER



IP66 Protection for Residential and Commercial Applications

-  Up to 200A battery charge/discharge capability
-  DC & AC coupling - retrofit existing solar systems easily
-  100% unbalanced output for flexible three-phase loads
-  Wide voltage options: 120/208V, 127/220V
-  Compatible with diesel generator energy storage
-  Smart Wi-Fi monitoring for remote management
-  High-voltage, high-efficiency performance
-  IP66 protection level for reliable outdoor performance

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 frequency and voltage	50Hz/60Hz, 3L/N/PE, 120/208V, 127/220V		
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	Three phase		
Max.AC current from utility grid	300A		
Output AC (Back-up)			
Nominal output apparent power	40kW	50kW	60kW
Max. output apparent power	44kVA	55kVA	66kVA
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*100A/2*100A		
Charging strategy for Li-Ion battery	Self-adaption to BMS		