

# Three-phase Hybrid Inverter HI-15~25K-TH



-  Equipped with GEN port, compatible with diesel generators, smart loads, and AC coupling.
-  IP66 rated enclosure, designed for both indoor and outdoor deployment in harsh environments.
-  Supports setting 9 periods, including three periods each for self-consumption, battery charge, and battery discharge.
-  Supports 100% 3-phase unbalanced output on both ports (BACKUP & GRID).
-  Integrated 0-export function.
-  Peak shaving and valley filling to enhances grid stability.

Technical Data	HI-15K-TH	HI-20K-TH	HI-25K-TH
<b>Input DC (PV side)</b>			
Max. PV access power	30kW	40kW	50kW
Max. PV input power	24kW	32kW	40kW
Max. PV input voltage		1000V	
Nominal input voltage		600V	
MPPT working voltage range		180V-850V	
Number of independent MPPT / strings per MPPT		2/2	
MPPT max. current		30A/30A	
Start-up voltage		200V	
<b>Output/Input AC (Grid side)</b>			
Nominal apparent power	15kW	20kW	25kW
Max. apparent power	16.5kVA	22kVA	25kVA
Nominal voltage		380V/400V	
Nominal frequency		50Hz/60Hz	
Rated current	22.7A/21.7A	30A/29A	37.8A/36.3A
Max. current	25A	33A	38A
Power factor		-0.8~+0.8(adjustable)	
THDi		<3%(Nominal Output)	
Grid system pattern		3L+N+PE	
Max. AC current from utility grid		60A	
<b>Output AC (Back-up)</b>			
Nominal output power	15kW	20kW	25kW
Max. output apparent power	16.5kVA	22kVA	25kVA
Nominal output voltage		380V/400V	
Nominal output frequency		50Hz/60Hz	
Output THDV		<3%	
Automatic switch time		<10ms	
<b>Battery</b>			
Battery type		Li-ion	
Battery voltage range		150V-750V	
Max. charging/discharging current		50A	
Charging strategy for Li-ion battery		Self-adaption to BMS	
<b>Efficiency</b>			
Max. MPPT efficiency		99.9%	
Europe efficiency		97.5%	
Max. battery to load efficiency		98%	
<b>Protection</b>			
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	
<b>General Data</b>			
Dimensions(L/W/H)in mm		403/284/463	
Weight		32kg	
Operation temperature range		-25°C~+60°C	
Heat dissipation mode		Smart cooling	
IP Class		IP 66	
Maximum altitude		4000m	
Self-Consumption night		<5W	
Topology		T transformerless	
<b>Features</b>			
LCD display		Yes	
Communication interface		WiFi/4G/USB/CAN/RS485	
Standards	IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000, CEI 0-21, VDE AR 4105, VDE V 0124-100, NC RfG, PSE, PTRIEEE, EN 50549-1, NRS 097		