

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
Input DC (PV side)			
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		
Output/Input AC (Grid side)			
Nominal 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		
Output AC (Back-up)			
Nominal output power	15kW	20kW	25kW
Max. output apparent power	16.5kVA	22kVA	25kVA
Nominal output voltage	380V/400V		
Nominal ouput frequency	50Hz/60Hz		
Output THDV	<3%		
Automatic switch time	<10ms		
Battery			
Battery type	Li-ion		
Battery voltage range	150V-750V		
Max. charging/discharging current	50A		
Charging strategy for Li-ion battery	Self-adaption to BMS		
Efficiency			
Max. MPPT efficiency	99.9%		
Europe efficiency	97.5%		
Max. battery to load efficiency	98%		
Protection			
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		
General Data			
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		
Features			
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, PTRiREE, EN 50549-1, NRS 097		