

Three-phase Hybrid Inverter HI-80~125K-TH



-  IP66 rated enclosure, designed for both indoor and outdoor deployment in harsh environments.
-  Supports 100% 3-phase unbalanced output on both ports (BACKUP & GRID).
-  Integrated 0-export function.
-  Sustain 200% rated power overload for 10 seconds.
-  Peak shaving and valley filling to enhances grid stability.
-  110% continuous overload rating at sustained operation.

| Technical Data | HI-80K-TH | HI-90K-TH | HI-100K-TH | HI-110K-TH | HI-125K-TH |
|---|--|-----------|------------|------------|------------|
| Input DC (PV side) | | | | | |
| Max. PV access power | 160kW | 180kW | 200kW | 220kW | 250kW |
| Max. PV input power | 128kW | 144kW | 160kW | 176kW | 200kW |
| 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 | 80kW | 90kW | 100kW | 110kW | 125kW |
| Max. apparent power | 88kVA | 100kVA | 110kVA | 120kVA | 137kVA |
| Nominal voltage | 380V/400V | | | | |
| Nominal frequency | 50Hz/60Hz | | | | |
| Rated current | 121A/116A | 136A/130A | 151A/145A | 167A/159A | 189A/181A |
| Max. current | 133A | 149A | 166A | 184A | 207A |
| Power factor | -0.8~+0.8(adjustable) | | | | |
| THDi | <3%(Nominal Output) | | | | |
| Grid system pattern | 3L+N+PE | | | | |
| Max. AC current from utility grid | 300A | | | | |
| Output AC (Back-up) | | | | | |
| Nominal output power | 80kW | 90kW | 100kW | 110kW | 125kW |
| Max. output apparent power | 88kVA | 100kVA | 110kVA | 120kVA | 137kVA |
| Nominal output voltage | 380V/400V | | | | |
| Nominal output frequency | 50Hz/60Hz | | | | |
| Output THDV | <3% | | | | |
| Automatic switch time | <10ms | | | | |
| Battery | | | | | |
| 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 | | | | |
| 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 | 1140/367/820 | | | | |
| Weight | 137kg | | | | |
| Operation temperature range | -30°C~+60°C | | | | |
| Heat dissipation mode | Smart cooling | | | | |
| IP Class | IP 66 | | | | |
| Maximum altitude | 4000m | | | | |
| Self-Consumption night | <20w | | | | |
| Topology | Transformerless | | | | |
| Features | | | | | |
| LCD display | Yes | | | | |
| Communication interface | WiFi/GPRS/RS485 | | | | |
| Standards | IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000, VDE AR 4105, VDE V 0124-100, NC RfG, PSE, PTRIEEE, EN 50549-1, NRS 097 | | | | |