# Three-Phase High-Voltage Hybrid Inverter

## 80KW/90KW/100KW/110KW/125KW



## Main Features

1〉 Features an IP66-rated enclosure suitable for indoor and outdoor installation in harsh operating environments.
2〉 Handles overloads of up to 200% of the rated power for a duration of 10 seconds.
3〉 Provides 100% three-phase unbalanced output through both the BACKUP and GRID ports.
4〉 Includes an integrated zero-export function to prevent power from being fed back into the grid.
5〉 Supports continuous operation at up to 110% of the rated load.
6〉 Supports peak shaving and valley filling to help improve overall grid stability.



| MODEL | 80KW | 90KW | 100KW | 110KW | 125KW |
|---|---|---|---|---|---|
| **PV String Input Data** | | | | | |
| 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 | | | | |
| **AC Output/Input Data(On-Grid)** | | | | | |
| 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 | | | | |
| **Back-up Output Data(UPS)** | | | | | |
| 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 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 | | | | |
| **Efficiency** | | | | | |
| Max.MPPT efficiency | 99.9% | | | | |
| Europe efficiency | 97.5% | | | | |
| Max.battery to load efficiency | 98.0% | | | | |
| **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** | | | | | |
| Dimension(L/W/H) | 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, PTRiREE, EN 50549-1, NRS 097 | | | | |

Product specifications are subject to change without notice.