

HYBRID SOLAR INVERTER

IVGM-LT Series

FEATURES

- Support Wi-Fi for mobile monitoring
- 48V low voltage battery, transformer isolation topology
- Max. charging/discharging current of 200A
- AC couple to retrofit existing solar system
- Support storing energy from diesel generator
- Power supply can be switched automatically and switching time within 20ms
- Support three phase imbalance



PRODUCT PARAMETERS

| Model | IVGM10048-LT |
|---------------------------------------|---|
| Battery Input Data | |
| Battery Voltage Range | 40V~60V |
| Max. charging and discharging current | 200A/200A |
| Max. charging and discharging power | 10000W |
| Battery type | Li-Ion/Lead-acid |
| DC Input Data (PV side) | |
| Max. recommended PV power | 13000W |
| Max. PV voltage | 900V |
| Start voltage | 160V |
| PV voltage range | 160V~900V |
| MPPT voltage range | 200V~850V |
| MPPT Voltage Range for Full Load | 450V~850V |
| Nominal voltage | 720V |
| Max. input current | 15A/15A |
| Max. shorted current | 18A/18A |
| No. of MPP Trackers | 2 |
| No. of Strings Per MPP Tracker | 1+1 |
| Grid Data | |
| Nominal Input Voltage | 230Vac/400Vac |
| Input Voltage Range | 184V~264.5V per phase* |
| Nominal grid frequency | 50/60Hz* |
| Max. input current | 30A per phase |
| Max. Charge Current | 200A |
| Max. AC output power | 10000W |
| AC Output Rated Current | 14.5A per phase |
| Max. output current | 18A per phase |
| Max. Continuous AC Passthrough | 30A per phase |
| Power factor | >0.99 |
| Displacement power factor | 0.8leading...0.8lagging |
| THDI | <3% |
| AC Output Data(Back Up) | |
| Rated output power | 10000VA/10000W |
| Max. Output current | 30A per phase |
| Rated AC output voltage | 230Vac per phase |
| Rated AC output frequency | 50/60Hz |
| Efficiency | |
| Max. efficiency | 97.6% |
| Euro efficiency | 97.6% |
| MPPT efficiency | 99.9% |
| Protection | |
| Output over current protection | Integrated |
| Output over power protection | Integrated |
| Output shorted protection | Integrated |
| Anti-islanding protection | Integrated |
| GFCI Protection | Integrated |
| Insulation Resistor Detection | Integrated |
| General Data | |
| Operating temperature range | -25°C-60°C, > 45°C Derating |
| Protection degree | Ip65 |
| Relative humidity | 100% |
| Cooling concept | Smart cooling |
| Altitude | 2000m |
| Communication | RS232/RS485 |
| BMS Communication | CAN/RS485 |
| Monitor module | Wi-Fi/GPRS |
| Display | LCD+LED |
| Installation Style | Wall-mounted |
| Warranty | 10 years |
| Grid Regulation | DE-AR-N 4105/99/1; EN50549-1; CEI 0-21; AS 4777.2; NRS 097-2-1; |
| Safety Regulation | IEC 62109-1/2, IEC 62040-1 |
| EMC | EN61000-6-1, EN61000-6-3 |
| Net Weight | 52.8KG |
| Gross Weight | 69.4KG |
| Product Dimension | 730*490*267mm |
| Package Dimension | 810*600*491mm |