

GRID TIE INVERTER

SINGLE PHASE

2kW to 6kW



1/2 MPP tracker, Max, efficiency up to 99.90%



Zero export application (Optional)



String intelligent monitoring



Wide input voltage range



Anti-PID function (Optional)



Low start-up voltage of 40V

GRID TIE INVERTER- SINGLE PHASE

| TECHNICAL SPECIFICATIONS | | | | | | | | | | |
|------------------------------------|---|----------|------------|------------|----------|-------------|----------|------------|----------|---|
| Capacity (kW) | 2 | 3 | 3.4 | 3.6 | 4 | 4.2 | 5 | 5.4 | 6 | |
| Model Number | VGE-2K2S | VGE-3K2S | VGE-3.4K2S | VGE-3.6K2S | VGE-4K2S | VGE-4.2K2S | VGE-5K2S | VGE-5.4K2S | VGE-6K2S | |
| INPUT (DC) | | | | | | | | | | |
| Max. DC Input Power (kW) | 3.0 | 4.5 | 5.1 | 5.4 | 5.6 | 6.0 | 7.5 | 8.1 | 9.0 | |
| Max. DC I/P (Vdc) | 600 | | | | | | | | | |
| Per MPPT Max. I/P Current (A) | 20 | | | | | | | | | |
| Per MPPT Short Circuit Current (A) | 22 | | | | | | | | | |
| MPPT Tracking Voltage (Vdc) | 80-580 | | | | | | | | | |
| Start-Up Voltage (Vdc) | 40 | | | | | | | | | |
| Number Of MPPT Tracker | 1 | | | 1 | | | | 1/2 | | 2 |
| Strings Per MPPT Tracker | 1 | | | | | | | | | |
| OUTPUT (AC) | | | | | | | | | | |
| Rated Output Power (kW) | 2.0 | 3.0 | 3.4 | 3.6 | 3.8 | 4.0 | 5.0 | 5.4 | 6.0 | |
| Rated Grid Voltage (Vac) | 230 | | | | | | | | | |
| Voltage Operating Range (Vac) ① | 180-300 | | | | | | | | | |
| Rated Grid Freq. (Hz) / Range ② | 50(± 5%) | | | | | | | | | |
| Rated Output Current AC (A) | 8.7 | 13.0 | 14.5 | 15.7 | 16.6 | 17.4 | 22.7 | 25.8 | 26.0 | |
| AC Connection | P+N+PE | | | | | | | | | |
| THDI (%) | <3 | | | | | | | | | |
| Output Power Factor | 0.8 Leading to 0.8 Lagging | | | | | | | | | |
| EFFICIENCY | | | | | | | | | | |
| Max. Conversion Efficiency (%) | 98.6 | | | | | | | | | |
| Max. Euro Efficiency (%) | 98.1 | | | | | | | | | |
| MPPT Efficiency (%) | >99.0 | | | | | | | | | |
| PROTECTION | | | | | | | | | | |
| DC Reverse Polarity Protection | YES | | | | | | | | | |
| Anti-islanding Protection | YES | | | | | | | | | |
| AC Short Circuit Protection | YES | | | | | | | | | |
| Residual Current Monitoring Unit | YES | | | | | | | | | |
| Insulation Resistance Monitoring | YES | | | | | | | | | |
| Ground Fault Monitoring | YES | | | | | | | | | |
| Grid Monitoring | YES | | | | | | | | | |
| Surge Protection | DC: Class II / AC: Class III | | | | | | | | | |
| GENERAL DATA | | | | | | | | | | |
| Dimensions (W*H*D) mm | 320*220*152.5 | | | | | 341*350*159 | | | | |
| Weight (kg) | 6.0 | | | | | 10.0 | | | | |
| Topology | Transformerless | | | | | | | | | |
| Noise Emission (dB) | ≤20 | | | | | | | | | |
| Shell Material | Alluminium Alloy | | | | | | | | | |
| Cooling Method | Natural Cooling | | | | | | | | | |
| Operating Ambient Temperature(°C) | (-25°C ~ +60°C) | | | | | | | | | |
| Operating Humidity (%) | 0 - 100 | | | | | | | | | |
| Max. Operating Altitude (m) | 3000 (>3000 Derating) | | | | | | | | | |
| Ingress Protection | IP66 | | | | | | | | | |
| CONNECTION TYPE | | | | | | | | | | |
| DC Connectors | MC-4 | | | | | | | | | |
| Ingress AC Plug | IP66 rated plug | | | | | | | | | |
| Communication Modes | Wi-Fi(2.4G), 4G, GPRS, Bluetooth, RS485 | | | | | | | | | |
| Remote Monitoring | Yes | | | | | | | | | |

- Notes:
- ①&②The voltage operating range and frequency may vary depending upon different grid codes. Specifications are subject to change without advance notice
 - The Inverter's standard warranty can be extended for an additional cost.