

Single Phase Hybrid Inverter -Low Voltage Version

01

User-friendly

- One-click setup and debugging

02

Safety & Protection

- IP66, design for outdoor

03

Smart

- Battery ready
- Cloud + Smart data analysis



| Single Phase Inverter Specification | | VR-G1-5K1P |
|-------------------------------------|--|-----------------|
| DC Input (PV) | Max. PV Input Power | 7500 Wp |
| | Max. PV Input Voltage | 550 V |
| | Rated Input Voltage | 380 V |
| | MPPT Voltage Range | 40 V ~ 530 V |
| | Start-up Voltage / Min. Input Voltage | 50 V / 40 V |
| | No. of MPPT Trackers / No. of Strings Per MPPT Tracker | 2/1 |
| | Max. Input Current Per MPPT | 16 A |
| | Max. Short-circuit Current Per MPPT | 20 A |
| AC Output | Rated Output Active Power | 5000 W |
| | Rated Output Apparent Power | 5000 VA |
| | Max. Output Apparent Power | 5000 VA |
| | Rated Output Current | 21.7 A |
| | Max. Output Current | 22.7 A |
| | Rated Output Voltage Range | 180 V ~ 280 V |
| | Rated Output Voltage | 230 V |
| | Rated Output Frequency | 50 Hz / 60 Hz |
| THDi | <3% | |
| AC Input | Rated Input Apparent Power | 6000 VA |
| | Max. Input Power | 6000 VA |
| | Rated Input Current | A.C. 26.1 A |
| | Max. Input Current | A.C. 27.3 A |
| | Rated Grid Voltage | A.C. 230 V |
| | Rated Grid Frequency | 50 Hz / 60 Hz |
| Battery Input | Nominal Battery Voltage | 48 V / 51.2 V |
| | Battery Voltage Range | 40 V ~ 60 V |
| | Max. Charging / Discharging Power | 5000 W / 5000 W |
| | Max. Charging / Discharging Current | 100 A / 100 A |
| | Compatible Battery | VR-LVB5 |

Single Phase Hybrid Inverter -Low Voltage Version

| Single Phase Inverter Specification | | VR-G1-5K1P |
|-------------------------------------|--|-----------------------------------|
| EPS Output | Rated Output Voltage | 230 V |
| | Rated Output Frequency | 50 Hz / 60 Hz |
| | Rated Output Apparent Power | 5000 VA |
| | Max. Output Apparent Power | 5000 VA |
| | Peak Output Apparent Power | 7500 VA, 10 s |
| | Rated Output Current | 21.7 A |
| | Max. Output Current | 21.7 A |
| | Max. Output Switching Time | ≤10 ms |
| Efficiency | THDi | <3% |
| | MPPT Efficiency | 99.90% |
| | European Efficiency | 97.00% |
| Feature & Protection | Max. Efficiency | 97.60% |
| | Overvoltage Category DC: II; Protection Class I / AC: III; DC-side Disconnection Device; PV String-/ Battery Input Reverse Polarity Protection; All-pole Sensitive Residual Current Monitoring Unit; Anti-islanding Protection; Ground Fault Protection; AC Output Over Current / Short Circuit Current Protection; AC Overvoltage Protection | |
| | Power Factor Adjustment Range | ≥0.99 / 0.8 leading - 0.8 lagging |
| General Data | Dimensions (W/H/D) | 483 mm*455 mm*193 mm |
| | Weight | 25 kg |
| | Operating Temperature Range | -25 °C - 60 °C |
| | Noise Emissions (Typical) | 30 dB (A) |
| | Standby Consumption | <10 W |
| | Cooling Concept | Intelligent Air Cooling |
| | Protection Rating | IP66 |
| | Max. Operating Altitude | 4000 m (>3000m Power Derating) |
| | User Interface | LED & APP |
| | Communication with BMS | RS485 / CAN |
| | Communication with Meter | RS485 |
| | Communication with Portal | WIFI Stick |
| Certificates | IEC 62109-1/-2 CE LVD, IEC 61000-6-x EMC | |