



GMSN3-8KWE

Energy Storage Inverter Series



Single Phase | 3-8KW | On-Grid

- Lightning protection, high precision leakage monitoring
- Low standby consumption, high efficiency and yield
- APP connection, all data at real time



Remote maintenance
& configuration



Quiet generation,
no noise pollution



Intelligent & active
response to grid dispatch



Technical Data

| DC Input | GMSN3KWE-2 | GMSN3.6KWE | GMSN4KWE | GMSN5KWE | GMSN5KWE-B | GMSN6KWE | GMSN6KWE-IE | GMSN7KWE | GMSN8KWE | |
|-------------------------------------|--|------------|----------|----------|------------|----------|-------------|----------|----------------|--|
| Max. PV Array Power [Wp]@STC | 4500 | 5400 | 6000 | 7500 | 7500 | 9000 | 9000 | 10500 | 12000 | |
| Max.DC Voltage [V] | 600 | | | | | | | | | |
| MPPT Voltage Range [V] | 90-550 | | | | | | | | | |
| Rated DC Voltage [V] | 360 | | | | | | | | | |
| Start Voltage [V] | 100 | | | | | | | | | |
| Min.Dc Voltage [v] | 80 | | | | | | | | | |
| Max.DC Input Current [A] | 15/15 | | | | | | | | 30/15 | |
| Max.DC Short Circuit Current [A] | 18/18 | | | | | | | | 36/18 | |
| No.of Strings per MPPT | 1/1 | | | | | | | | 2/1 | |
| No.of MPPT | 2 | | | | | | | | | |
| DC Switch | Integrated | | | | | | | | | |
| AC Output | GMSN3KWE-2 | GMSN3.6KWE | GMSN4KWE | GMSN5KWE | GMSN5KWE-B | GMSN6KWE | GMSN6KWE-IE | GMSN7KWE | GMSN8KWE | |
| Rated AC Power [W] | 3000 | 3680 | 4000 | 5000 | 5000 | 6000 | 5500 | 7000 | 8000 | |
| Max.Apparent Power [VA] | 3300 | 3680 | 4400 | 5500 | 5000 | 6000 | 5500 | 7700 | 8000 | |
| Rated Output Current [A]@230Vac | 13.1 | 16.0 | 17.4 | 21.8 | 21.8 | 26.1 | 25.0 | 30.5 | 34.8 | |
| Max.Output Current [A] | 14.4 | 16.0 | 19.2 | 23.9 | 21.8 | 26.1 | 25.0 | 33.5 | 34.8 | |
| Rated AC Voltage/Range [V] | L+N+PE, 220, 230, 240/180~280 | | | | | | | | | |
| Rated Output Frequency/Range [Hz] | 50, 60/45~55, 55~65 | | | | | | | | | |
| Power Factor [cos φ] | 0.8 leading~0.8 lagging | | | | | | | | | |
| Total Harmonic Distortion [THDi] | < 3% | | | | | | | | | |
| Efficiency | GMSN3KWE-2 | GMSN3.6KWE | GMSN4KWE | GMSN5KWE | GMSN5KWE-B | GMSN6KWE | GMSN6KWE-IE | GMSN7KWE | GMSN8KWE | |
| Max. Efficiency | 97.8% | 98.0% | 98.0% | 98.1% | 98.1% | 98.2% | 98.2% | 98.2% | 98.3% | |
| Euro Efficiency | 97.2% | 97.5% | 97.5% | 97.6% | 97.6% | 97.6% | 97.6% | 97.7% | 97.8% | |
| MPPT Efficiency | > 99.9% | | | | | | | | | |
| Protection | GMSN3KWE-2 | GMSN3.6KWE | GMSN4KWE | GMSN5KWE | GMSN5KWE-B | GMSN6KWE | GMSN6KWE-IE | GMSN7KWE | GMSN8KWE | |
| Internal Overvoltage Protection | Integrated | | | | | | | | | |
| DC Insulation Ristance Detection | Integrated | | | | | | | | | |
| Grid Monitoring | Integrated | | | | | | | | | |
| GFCI Monitoring | Integrated | | | | | | | | | |
| DCI Monitoring | Integrated | | | | | | | | | |
| AC Short Circuit Current Protection | Integrated | | | | | | | | | |
| AC Grounding Detection | Integrated | | | | | | | | | |
| DC Surge Protection | Integrated | | | | | | | | | |
| AC Surge Protection | Integrated | | | | | | | | | |
| Anti-islanding Protection | Integrated | | | | | | | | | |
| Interface | GMSN3KWE-2 | GMSN3.6KWE | GMSN4KWE | GMSN5KWE | GMSN5KWE-B | GMSN6KWE | GMSN6KWE-IE | GMSN7KWE | GMSN8KWE | |
| DC Connection | MC4/H4 | | | | | | | | | |
| AC Connection | Plug-in Connector | | | | | | | | Terminal Block | |
| Display | LED+APP | | | | | | | | | |
| Communication Port | RS232(USB)+RS485(RJ45)+DRM | | | | | | | | | |
| Communication | Wi-Fi/Ethernet/4G(Optional) | | | | | | | | | |
| General Parameters | GMSN3KWE-2 | GMSN3.6KWE | GMSN4KWE | GMSN5KWE | GMSN5KWE-B | GMSN6KWE | GMSN6KWE-IE | GMSN7KWE | GMSN8KWE | |
| Topology | Non-isolated | | | | | | | | | |
| Consumption at Night [W] | <1 | | | | | | | | | |
| Operating Temperature Range | -40°C to +60°C (45°C to 60°C with derating) | | | | | | | | | |
| Cooling Method | Natural Convection | | | | | | | | | |
| Ambient Humidity | 0-100% Non-condensing | | | | | | | | | |
| Altitude | 4000m (>3000m Power Derating) | | | | | | | | | |
| Noise [dBA] | <25 | | | | | | | | | |
| Ingress Protection | IP65 | | | | | | | | | |
| Mounting | Wall Mounting | | | | | | | | | |
| Dimensions [H*W*D][mm] | 389×367×143 | | | | | | | | 429×418×177 | |
| Weight [kg] | 12.2 | | | | | | | | 18 | |
| Warranty [Year] | 5/10/15/20 | | | | | | | | | |
| Applicable Standard | EN 62109-1/2, EN 61000-6-1/2/3/4, EN 50438, EN 50549, C10/11, IEC 62116, IEC 61727, RD 1699, RD 413, UNE 206006, UNE 206007, NTS, CEI 0-16, CEI 0-021, AS 4777.2, NBR 16149, NBR 16150 VDE-AR-N 4105, VDE 0126-1-1 | | | | | | | | | |

