EVERGRID

TECHNOLOGY INC

CLEAN ENERGY

A BRIGHTER TOMORROW

MICRO INVERTER

# EGM-800 / 1000

High-performance microinverter designed for residential and commercial solar systems.



## KEY FEATURES

**High Efficiency**
MPPT tracking efficiency up to 99.5%. CEC weighted average efficiency up to 96.5%.

**Flexible Application**
Supports single or multi-module PV strings, or 90° large-array configurations.

**Reliable & Safe**
Isolated high-frequency design, <50 VDC source voltage, multiple protection functions.

**Smart Monitoring**
Built-in WiFi / PLC / 4G (optional). Real-time remote monitoring via mobile app or cloud.

**Easy Installation**
Plug and play — simple and convenient setup.

**Durable Design**
IP67 / NEMA 6, −40° to +60°C operating range. Natural cooling, no fans, low noise.

## TYPICAL APPLICATION

**Rooftop Solution**



## CERTIFICATION

ETL Listed (Intertek) · UL 1741 · IEEE 1547 · NEC 2024 compliant

# EGM-800 / 1000 FULL SPECIFICATIONS

| Model | EGM-800 | EGM-1000 |
|---|---|---|
| **INPUT \| DC** | | |
| Recommended Max PV Power | 600 W x 2 | 750 W x 2 |
| Max DC Open Circuit Voltage | 60 Vdc | |
| Max DC Input Current | 20 A x 2 | |
| MPPT Tracking Accuracy | >99.5% | |
| MPPT Tracking Range | 22 – 55 Vdc | |
| ISC PV (Absolute Maximum) | 25 A x 2 | |
| Maximum Backfeed Current to Array | 0 A | |
| **OUTPUT \| AC** | | |
| Peak AC Output Power | 800 W | 1000 W |
| Max Continuous Output Power (1φ) | 768 W | 960 W |
| Max Continuous Output Power (3φ) | 700 W | 832 W |
| Nominal Power Grid Voltage | 1φ: 240 Vac (adj.) · 3φ: 208 Vac (adj.) | |
| Allowable Power Grid Voltage | 1φ: 211–264 Vac · 3φ: 183–228 Vac | |
| Rated Output Current | 1φ 3.2A / 3φ 3.4A | 1φ 4.0A / 3φ 4.0A |
| Max. Units Per Branch (20A, NEC-adjusted) | 1φ 5 / 3φ 4 | 1φ 4 / 3φ 4 |
| Allowable Power Grid Frequency | 59.3 – 60.5 Hz (adjustable) | |
| THD | <5% (at rated power) | |
| Power Factor | −0.9 ~ 0.9 | |
| Current Inrush (Peak / Duration) | 9.4 A, 15 µs | |
| Nominal Frequency | 60 Hz | |
| Max Output Fault Current | 2.4 A rms for 3 cycles | |
| Max Output Overcurrent Protection | 10 A | |
| **SYSTEM EFFICIENCY** | | |
| Weighted Average Efficiency (CEC) | 96.5% | |
| Nighttime Tare Loss | 0.2 W | |
| **PROTECTION FUNCTION** | | |
| Over/Under Voltage Protection | Yes | |
| Over/Under Frequency Protection | Yes | |
| Anti-Islanding Protection | Yes | |
| Over Current Protection | Yes | |
| Reverse DC Polarity Protection | Yes | |
| Overload Protection | Yes | |
| **GENERAL** | | |
| Protection Degree | NEMA-6 / IP-66 / IP-67 | |
| Ambient Temperature | −40°F to +149°F (−40°C to +65°C) | |
| Operating Temperature | −40°F to +185°F (−40°C to +85°C) | |
| Display | LED Light | |
| Communications | Power Line Communications / WiFi | |
| Environment Category | Indoor and outdoor | |
| Wet Location | Suitable | |
| Pollution Degree | PD 3 | |
| Over Voltage Category | II (PV), III (AC Mains) | |