EVERGRID

TECHNOLOGY INC

CLEAN ENERGY

A BRIGHTER TOMORROW

MICRO INVERTER

EGM-1200 / 1600 / 2000

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 (3 Panels)



Rooftop Solution (4 Panels)



CERTIFICATION

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

EGM-1200 / 1600 / 2000 FULL SPECIFICATIONS

Model	EGM-1200	EGM-1600	EGM-2000
INPUT | DC			
Recommended Max PV Power	450 W x 4	600 W x 4	750 W x 4
Max DC Open Circuit Voltage		60 Vdc	
Max DC Input Current		25 A x 4	
MPPT Tracking Accuracy		>99.5%	
MPPT Tracking Range		22 – 55 Vdc	
ISC PV (Absolute Maximum)	25 A x 2	25 A x 4	25 A x 4
Maximum Backfeed Current to Array		0 A	
OUTPUT | AC			
Peak AC Output Power	1200 W	1600 W	2000 W
Max Continuous Output Power (1φ)	1280 W	1536 W	1920 W
Max Continuous Output Power (3φ)	1102 W	1331 W	1664 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/3φ 5.3 A	1φ/3φ 6.4 A	1φ/3φ 8.0 A
Max. Units Per Branch (20A, NEC-adjusted)	1φ/3φ 3 units	1φ/3φ 2 units	1φ/3φ 2 units
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)		24 A, 15 µs	
Nominal Frequency		60 Hz	
Max Output Fault Current		17.3 A rms for 3 cycles	
Max Output Overcurrent Protection		20 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)	