EVERGRID

TECHNOLOGY INC

CLEAN ENERGY

A BRIGHTER TOMORROW

MICRO INVERTER

EGM-300 / 350 / 400

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-300 / 350 / 400 FULL SPECIFICATIONS

Model	EGM-300	EGM-350	EGM-400
INPUT | DC			
Recommended Max PV Power	450 W	525 W	600 W
Max DC Open Circuit Voltage		60 Vdc	
Max DC Input Current		20 A	
MPPT Tracking Accuracy		>99.5%	
MPPT Tracking Range		22 – 55 Vdc	
ISC PV (Absolute Maximum)		20 A	
Maximum Backfeed Current to Array		0 A	
OUTPUT | AC			
Peak AC Output Power	300 W	350 W	400 W
Max Continuous Output Power (208V)	256 W	302 W	332 W
Max Continuous Output Power (240V)	295 W	349 W	384 W
Nominal Power Grid Voltage		1φ: 240 Vac · 3φ: 208 Vac	
Allowable Power Grid Voltage		1φ: 211–264 Vac · 3φ: 183–228 Vac (adj.)	
Rated Output Current	1φ/3φ 1.23 A	1φ/3φ 1.45 A	1φ/3φ 1.6 A
Max. Units Per Branch (20A, NEC-adjusted)	1φ/3φ 13 units	1φ/3φ 11 units	1φ/3φ 10 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)		15 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)	