EVERGRID

TECHNOLOGY INC

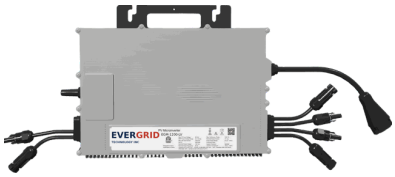
CLEAN ENERGY

A BRIGHTER TOMORROW

MICRO INVERTER

EGM-1200-LV / 1600-LV

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



KEY FEATURES

Plug-and-Play Wall Outlet
Installs in minutes by plugging directly into a standard 120V wall outlet, for DIY installation.

Multi-String PV Inputs
Connect multiple solar panels to a single inverter, with adaptive voltage tracking across shading, angles or mixed panels.

ETL Listed
Fully compliant with U.S. grid safety and interoperability standards.

Scalable Output, High Efficiency
Generates up to 1.6kW continuous power per inverter.

Built-in WiFi & BLE
Monitor performance and receive alerts via iOS/Android, with over-the-air firmware updates.

AC Coupling for Battery Storage
Integrates with AC-coupled batteries for backup power without retrofitting existing wiring.

TYPICAL APPLICATION

Plug-in Solution (3 Panels)



Plug-in Solution (4 Panels)



CERTIFICATION

ETL Listed (Intertek) · UL 1741 · UL 3700 · IEEE 1547 · NEC 2024 compliant

EGM-1200-LV / 1600-LV FULL SPECIFICATIONS

Model	EGM-1200-LV	EGM-1600-LV
Model Number	EGM-1200-LV	EGM-1600-LV
Commercial Name	Liberty Plug-in	
INPUT | DC		
Recommended PV Module Max. Power	600 W × 3	600 W × 4
PV Input Voltage Range	20 – 60V	
MPPT Operating Voltage Range	22 – 55V	
Start-up Voltage	25V	
Max. PV Current	25 A × 3	25 A × 4
OUTPUT | AC		
Rated AC Voltage	120V	
Rated AC Frequency	60 Hz	
Rated AC Output Current	10 A @ 120V	13.3 A @ 120V
Rated AC Output Power	1200 W	1600 W
Power Factor	−0.9 ~ 0.9	
THDi	<5%	
EFFICIENCY		
Max. MPPT Efficiency	99.9%	
Max. Efficiency	97%	
CEC Efficiency	96.5%	
PROTECTION		
PV Reverse Polarity Protection	Yes	
Over Current / Over Voltage Protection	Yes	
Anti-Islanding Protection	Yes	
AC Short-Circuit Protection	Yes	
Ground Fault Monitoring	Yes	
Leakage Current Protection	Yes	
AC / DC Surge Protection (Type II)	Yes	
RSD (Rapid Shutdown)	Yes	
GENERAL DATA		
Dimensions (W x H x D)	321 x 271 x 42.5 mm	
Weight	3.1 kg (6.8 lbs)	
Ingress Protection Rating	NEMA 6	
Relative Humidity	0 ~ 100%	
Operating Temperature Range	−40 ~ +65℃	
Storage Temperature Range	−40 ~ +85℃	
Communication Interface	PLC / Wi-Fi	
Display	LED Indicator	
Topology	With Transformer (Isolated)	
Max. Altitude	<2000m	