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)	

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)	

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)	

EVERGRID

TECHNOLOGY INC

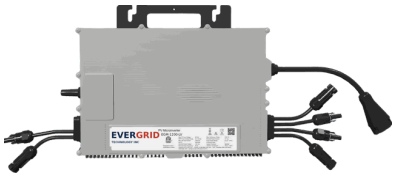
CLEAN ENERGY

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	

EVERGRID

TECHNOLOGY INC

CLEAN ENERGY

A BRIGHTER TOMORROW

MICRO-HYBRID INVERTER

EGHX-1000 / 2000

High-performance hybrid inverter designed for residential and commercial solar-plus-storage systems. Dual-rated for 230V/50Hz and 240V/60Hz grids.



KEY FEATURES

Flexible Output Configuration
The inverter output supports 4 units in parallel. Before parallel operation, inverters must connect via CAN communication.

Intelligent Management
Remote WiFi and local monitoring.

Application Modes
Inverter Output · On-Grid · Self-Used · Back-up · Force Time-of-Use

TYPICAL APPLICATION

PV + Battery + Load (2 Panels)



PV + Battery + Load (4 Panels)



CERTIFICATION

ETL Listed (Intertek) · UL 1741 · IEEE 1547 · NEC 2024 compliant · Rated for both 230V/50Hz and 240V/60Hz service

EGHX-1000 / 2000 FULL SPECIFICATIONS

Model	EGHX-1000	EGHX-2000
PV INPUT		
Recommended PV Module	600 W x 2 / 600 W x 4	
MPPT Voltage Range	22 – 55V	
Startup Voltage	25V	
Max. Input Voltage	60V	
Max. DC Short Circuit Current	20 A x 2	40 A x 2
PV Overvoltage Protection Category	II	
AC OUTPUT (ON-GRID)		
Max. Continuous AC Output Power	1000 VA	2000 VA
Rated AC Output Voltage	230V / 240V (configurable)	
Max. Continuous Output Current	4.35 A	8.69 A
Nominal Frequency	50 Hz / 60 Hz	
Power Factor	−0.8 ~ +0.8	
THD @ Rated Power	<5% (at rated power)	
AC OUTPUT (OFF-GRID)		
Rated AC Output Voltage	230V / 240V (configurable)	
Rated AC Output Power	1000 VA	2000 VA
Nominal Frequency	50 Hz / 60 Hz	
Max AC Output Power	2000 W (20s)	3000 W (20s)
BATTERY		
Battery Type	LFP	
Battery Voltage	40 – 60V	
PV Max Charge Current	30 A	40 A
AC Charge Rated Power	1000 W	2000 W
Max Discharge Power	1000 W	2000 W
GENERAL		
Operating Ambient Temperature Range	−40°C ~ +65°C (−40°F to +149°F)	
Communications	WiFi / Bluetooth	
Protection Class	IP65	
Cooling	Natural convection	
UPS Function	Yes	
Off-Grid Output Parallel	4 units	

Nominal output voltage and frequency are field-configurable (230V/50Hz or 240V/60Hz) to match the destination grid; current and power ratings above are stated at the 230V/50Hz reference point.

EVERGRID

TECHNOLOGY INC

CLEAN ENERGY

A BRIGHTER TOMORROW

INTEGRATED RESIDENTIAL ENERGY STORAGE SYSTEM

EGHB-2250

Integrated residential energy storage system combining a bidirectional inverter with LFP battery storage for on-grid and off-grid use.



KEY FEATURES

Used Both On-Grid and Off-Grid
Flexible operation as a grid-tied or standalone backup power source.

Improve Power Grid Stability
Smooths demand and supply fluctuations for a more stable connected grid.

Bidirectional Power Conversion
Converts and routes power in either direction between PV, battery, and loads.

Maximize PV Utilization
Maximizes the utilization of photovoltaic power generation across 4 independent MPPT inputs.

TYPICAL APPLICATION

PV + Battery + Load



CERTIFICATION

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

EGHB-2250 FULL SPECIFICATIONS

Model	EGHB-2250
BATTERY	
Battery Type	**Lithium Iron Phosphate**
Battery Voltage Range	**40 ~ 60V**
Maximum Continuous Discharge Current	**50 A**
Maximum Continuous Charging Current	**50 A**
Rated Capacity	**5120 Wh**
DC INPUT	
Maximum Input Power	**600 W × 4**
Maximum Input Voltage	**60 Vdc**
MPPT Voltage Range	**22 – 55 Vdc**
Starting Voltage	**22 Vdc**
Maximum Input Current per MPPT	**20 A**
Maximum Short-Circuit Current per MPPT	**25 A**
MPPT Quantity	**4**
AC OUTPUT | ON-GRID SIDE	
Rated Output Power	**1200 W**
Peak Apparent Power	**1200 W, 20s**
Maximum Continuous Current	**10 A**
Rated Output Voltage	**L/N/PE, 120V**
Rated Output Frequency	**50 Hz / 60 Hz**
THD	**<5%**
Power Factor	**−0.8 ~ 0.8**
AC OUTPUT | OFF-GRID SIDE	
Rated Output Power	**1200 W**
Peak Apparent Power	**1200 W, 20s**
Maximum Continuous Current	**10 A**
Rated Output Voltage	**L/N/PE, 120V**
Rated Output Frequency	**50 Hz / 60 Hz**
THD	**<5%**
Power Factor	**−0.8 ~ 0.8**
BATTERY CHARGING	
Rated AC Charging Power	**1200 W**
Rated MPPT Charging Power	**2250 W**

EVERGRID

TECHNOLOGY INC

CLEAN ENERGY

A BRIGHTER TOMORROW

INTEGRATED RESIDENTIAL ENERGY STORAGE SYSTEM

EGH-8KSP-LB / 10KSP-LB / 12KSP-LB

All-in-one hybrid inverter and battery system for PV, generator, on/off-grid and AC/DC-coupled residential energy storage.



KEY FEATURES

All-in-One Solution
PV, Generator, On/Off Grid, AC/DC Coupling in a single integrated system.

Parallel Expansion
Supports up to 10 units in parallel for larger installations.

Integrated Protection
Integrated AC & DC breakers for fast installation and commissioning, with integrated AFCI & EVERGRID RSD.

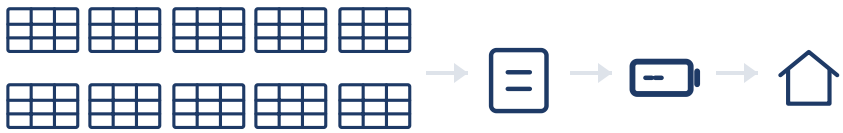
Power & Backup
Max. 18 kW PV power delivered to battery & AC outputs, with whole-home 200A AC passthrough and backup.

Multiple Applications
Generator input mode, micro/string inverter input mode, and SmartLoad.

Smart Monitoring
Integrated panel-level monitoring and intelligent management with remote Wi-Fi and local monitoring.

TYPICAL APPLICATION

PV + Battery + Load



CERTIFICATION

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

EGH-8KSP-LB / 10KSP-LB / 12KSP-LB FULL SPECIFICATIONS

Model	EGH-8KSP-LB	EGH-10KSP-LB	EGH-12KSP-LB
INPUT | PV DC			
Maximum Utilized Solar Power	12000 W	15000 W	18000 W
Rated PV Input Voltage	360 V		
PV Input Voltage Range	100 ~ 600 V		
MPPT Operating Voltage Range	120 ~ 500 V		
Start-up Voltage	140 V		
No. of MPP Trackers	2	2	3
No. of Strings per MPPT	1/1	1/1	2/1/1
Max. Input Current per MPPT	25A/25A	25A/25A	25A/15A/15A
Max. Short Circuit Current per MPPT	31A/31A	31A/31A	31A/19A/19A
BATTERY			
Battery Type	Lithium-ion / Lead-Acid		
Rated Battery Voltage	48 V		
Battery Voltage Range	40 ~ 60 V		
Max. Charging/Discharging Current	167 A	210 A	250 A
Max. Charging/Discharging Power	8000 W	10000 W	12000 W
Force Wake-up Battery from PV Function	YES		
GRID			
Rated AC Voltage	120V/240V; 120V/208V		
Rated AC Frequency	50 Hz / 60 Hz		
Rated AC Output Current	33.3A @240V / 38.5A @208V	41.6A @240V / 48A @208V	50 A
Rated AC Output Power	8000 W	10000 W	12kW @240V / 10.4kW @208V
Max. AC Input Current	200 A		
Max. AC Input Power	48000 W		
PF	0.99 (adjustable, 0.9 leading to 0.9 lagging)		
THDi	<3%		
AC Bypass (Grid)	200 A		
EPS			
Rated Output Voltage	120V/240V; 120V/208V; 240V		
Rated Output Frequency	50 Hz / 60 Hz		
Rated Output Current	33.3A @240V / 38.5A @208V	41.6A @240V / 48A @208V	50 A
Rated Output Power	8000 W	10000 W	12kW @240V / 10.4kW @208V

EPS			
Peak Power	With PV: 8.8kW (2h), 9.6kW (15min), 10.4kW (7.5min), 13.2kW (750ms) · Without PV: 8.8kW (10min)	With PV: 11kW (2h), 12kW (15min), 13kW (7.5min), 16.6kW (750ms) · Without PV: 11kW (10min)	With PV: 13.2kW (2h), 14.4kW (15min), 15.6kW (7.5min), 20kW (750ms) · Without PV: 13.2kW (10min)
Switching Time	15 ms		
THDv	<3%		
AC Bypass (Generator)	90 A		
EFFICIENCY			
Max. MPPT Efficiency	99.9%		
Max. Efficiency	97.5%		
Max. Battery Charging/Discharging Efficiency	94.5%		
CEC Efficiency	96.5%		
PROTECTION			
PV Reverse Polarity Protection	YES		
Over Current/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		
AFCI	YES		
RSD	YES		
DC Switch	YES		
Load Switch (Current)	200 A		
Battery Switch (Current/Voltage)	2×200A / 80VDC		
GENERAL			
Dimensions (W×H×D)	500×860×290mm / 19.68×33.86×11.42in		
Weight	52 kg / 114.6 lbs		
Ingress Protection Rating	NEMA 4X		
Relative Humidity	0 ~ 100%		
Operating Temperature Range	−25 ~ 60°C, >45°C derating		
Storage Temperature Range	−25 ~ 60°C		
Communication Interface	RS485 / CAN / Wi-Fi		
Display	Color Touch LCD		
Cooling Method	Smart Cooling		
Topology	Transformer-less		
Altitude	<2000m		
Warranty	10 years		
Standards & Certification	ETL Listed (Intertek) · UL 1741 · IEEE 1547 · NEC 2024		

EVERGRID

TECHNOLOGY INC

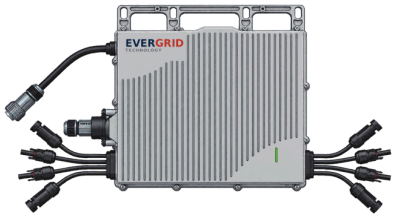
CLEAN ENERGY

A BRIGHTER TOMORROW

SMARTER SOLAR FOR A GREENER TOMORROW

EGHX-2000T-208 / 480

High-performance three-phase hybrid microinverter for commercial solar-plus-storage systems, available in 208V and 480V variants.



KEY FEATURES

LFP Battery
48V rated battery voltage. 2000W charging / discharging.

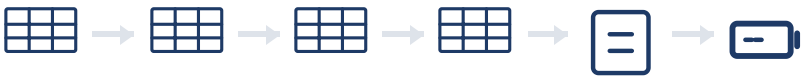
PV Input
700 W × 4 recommended max. input. 22 – 55V MPPT operating range.

Integrated Protection
Anti-islanding protection: Yes.

Monitoring & Enclosure
LED light indicator with power-line communications.

TYPICAL APPLICATION

PV + Inverter + Battery



CERTIFICATION

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

EGHX-2000T-208 / 480 FULL SPECIFICATIONS

Model	EGHX-2000T-208	EGHX-2000T-480
INPUT | DC		
Recommended Max PV Power	400 to 700W	
Max DC Open Circuit Voltage	65 Vdc	
Max DC Input Current	20 A x 4	
MPPT Tracking Accuracy	>99.8%	
MPPT Tracking Range	18 – 60 Vdc	
ISC PV (Absolute Maximum)	25 A x 4	
Maximum Backfeed Current to Array	0 A	
OUTPUT | AC		
Peak AC Output Power	2250 W	
Max Continuous Output Power (3φ)	2000 W	
Nominal Power Grid Voltage	208 Vac	480 Vac
Allowable Power Grid Voltage	183–228 Vac, 3φ	422–528 Vac, 3φ
Rated Output Current	6.3 A	2.7 A
Allowable Power Grid Frequency	55 - 65Hz (Adjustable)	
THD	<3% (at rated power)	
Power Factor	>0.99 default, 0.8 leading ~ 0.8 lagging	
Nominal Frequency	60 Hz	
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)	

EVERGRID

TECHNOLOGY INC

CLEAN ENERGY

A BRIGHTER TOMORROW

SMARTER SOLAR FOR A GREENER TOMORROW

EGH-80KT / 100KT / 125KT

Modular commercial battery energy storage cabinet with integrated three-phase hybrid inverter for large-scale photovoltaic and storage installations.



KEY FEATURES

Photovoltaic Integration
Supports connection to photovoltaic systems.

Compact Design
Combines ultra-high energy density with a compact footprint for easy installation and transportation.

Load Capability
Supports 100% unbalanced loads and sustained operation at 110% of rated load.

Remote Upgrades
Supports remote upgrades via multiple communication methods.

Modular Expansion
Features a modular design for flexible expansion and easy maintenance.

Flexible Power Control
Offers adjustable output power and configurable charging and discharging power to accommodate varying grid conditions.

CERTIFICATION

ETL Listed (Intertek) · UL STD.1741/1741SA/1741SB · IEEE STD.1547/1547.1/1547a · HECO SRD-IEEE-1547.1:2020 · CSA STD.C22.2 No.107.1/330

EGH-80KT / 100KT / 125KT FULL SPECIFICATIONS

Model	EGH-80KT	EGH-100KT	EGH-125KT
BATTERY			
Usable Energy (kWh)		261	
Cell Type		LFP (LiFePO4)	
Battery Module Capacity (kWh)		52.249	
Number of Battery Modules		5	
Rated Voltage (V)		832	
Maximum Charge/Discharge Current (A)		157	
PV INPUT			
Max. PV Input Power	200 kW	200 kW	250 kW
Withstand Voltage		1000 V	
Input Voltage Range		180 ~ 950 V	
MPPT Operating Voltage Range		180 ~ 850 V	
Start-up Voltage		180 V	
Max. Input Current per MPPT		42 A	
Max. Short Circuit Current per MPPT		63 A	
No. of MPPT Trackers		9	
No. of Strings per MPPT		2	
AC OUTPUT/INPUT			
Rated AC Voltage	277/480V (4-wire Wye) or 480V (3-wire Delta)		
Rated AC Frequency		50/60 Hz	
Rated AC Output Current	97 A	120 A	150 A
Rated AC Output Power	80 kW	100 kW	125 kW
Max. AC Input Current		300 A	
Max. AC Input Power		249 kW	
PF	0.99 (adjustable, 0.8 leading to 0.8 lagging)		
THDi		<3%	
EPS OUTPUT (LOAD)			
Rated Output Voltage	277/480V (4-wire Wye) or 480V (3-wire Delta)		
Rated Output Frequency		50/60 Hz	
Max. AC Output Power	88 kW	110 kW	137.5 kW
Peak Power	1.5 times of rated power, 10s		
Switching Time		15 ms	
THDv		<3%	
AC Bypass (Grid)		300 A	
AC Bypass (Generator)		300 A	
EFFICIENCY			
Max. MPPT Efficiency		99.9%	
Max. Efficiency		97.6%	

EFFICIENCY	
Max. Battery Charging/Discharging Efficiency	97.0%
CEC Efficiency	97.2%
PROTECTION	
PV Reverse Polarity Protection	YES
Over Current/Voltage Protection	YES
Anti-islanding Protection	YES
AC Short-Circuit Protection	YES
Leakage Current Protection	YES
Terminal Overtemperature Protection	YES
Ground Fault Monitoring	YES
Insulation Impedance Detection	YES
AFCI	YES
RSD	YES
PV DC Switch	YES
Surge Protection Type II	DC Type II / AC Type III
GENERAL	
Dimensions (W×H×D)	760×1150×345mm / 29.92×45.28×13.58in
Weight	130 kg / 286.6 lbs
Ingress Protection Rating	IP65 / NEMA 3R
Relative Humidity	0 ~ 100%
Operating Temperature Range	-30 ~ 60°C, >45°C derating
Storage Temperature Range	-30 ~ 60°C
Communication Interface	RS485 / CAN / Wi-Fi / LAN (optional)
Display	Color Touch LCD
Cooling Method	Smart Air Cooling
Topology	Transformer-less
Altitude	<2000m
Warranty	10 years
STANDARDS & CERTIFICATION	
Compliance	UL STD.1741, 1741SA, 1741SB · IEEE STD.1547, 1547.1, 1547a · HECO SRD-IEEE-1547.1:2020 Ed.2.0 · CSA STD.C22.2 No.107.1 and 330 · UL1966-2018 · 2030.5 · E5000, SA17-18 · PCS CRD.2019

EVERGRID
TECHNOLOGY INC

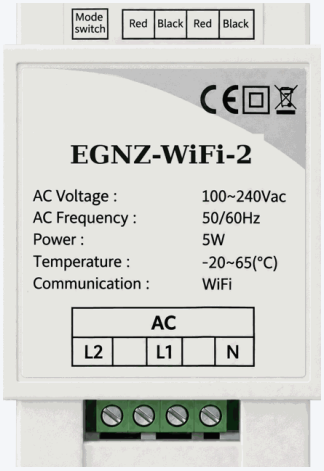
CLEAN ENERGY
A BRIGHTER TOMORROW

MICROINVERTER ECOSYSTEM

Accessories & Options

Optional communication and monitoring accessories for EverGrid microinverter systems with Wi-Fi communication.

OPTIONS FOR MICROINVERTERS WITH WIFI COMMUNICATION



EGNZ-WiFi

Export management (net zero).



WiFi-Bridge

Automatically searches microinverter SN.

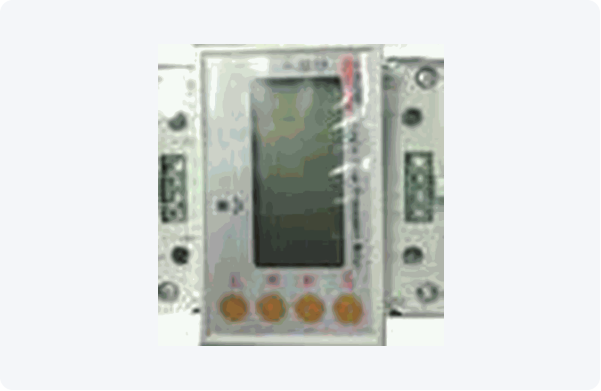
Accessory Options FOR MICROINVERTERS WITH WI-FI COMMUNICATION

ACCESSORY OPTIONS



Gateway

Required for PLC communication.



Consumption Meter (A)

Single-phase export management.



Consumption Meter (B)

Split-phase export management.



Consumption Meter (C)

Three-phase export management.

EVERGRID

TECHNOLOGY INC

CLEAN ENERGY

A BRIGHTER TOMORROW

NET ZERO CONTROL DEVICE

EGATE-256 / 256P3

Touchscreen net zero control and monitoring gateway for EverGrid microinverter systems, with WiFi, Ethernet and cellular connectivity.



KEY FEATURES

Convenient
WiFi, Ethernet, or Cell. Easy-to-configure web portal. Touch screen for easy configuration and troubleshooting. Supports dual voltage (100/240V) and dual frequency (50/60Hz).

Globally Certified
UL 60950-1 2nd edition, CSA C22.2 2nd edition, FCC Part 15 Class B, AS/NZS 60950.1:2011, EN 60950-1:2006. Revenue Grade Production Monitoring ANSI C12.20 +/- 0.5%.

Safe and Reliable
Supports local monitoring without internet.

TYPICAL APPLICATION

Net Zero Monitoring Chain



CERTIFICATION

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

EGATE-256 / 256P3 FULL SPECIFICATIONS

Model	EGATE-256	EGATE-256P3
COMMUNICATION INTERFACE		
Communication with Microinverter	PLC	
Ethernet	10/100 auto-sensing, auto-negotiation	
USB	USB 2.0 interface, auto-sensing, auto-negotiation	
Wi-Fi	Support	
Monitoring Capability	255 devices (depending on power grid interference)	
HUMAN INTERFACE		
Visual Display	LCD touch screen	
POWER REQUIREMENTS		
AC Input	100–240 Vac, 50/60Hz, 60mA	208 Vac, 380 Vac, 50/60Hz
Energy Consumption	3.5 Watts maximum	
MECHANICAL DATA		
Dimensions	170 x 110 x 37 mm	199 x 161 x 46 mm
Weight	150 g	
Device Operating Temperature	-20°C to +55°C	
Installation Ambient (Outside Cabinet)	-40°C to +50°C	
Internal Cabinet Ambient (Around Device)	-20°C to +55°C	
Cooling	Natural convection – no fans	
Environmental Rating	IP30 for indoor or NRTL-certified cabinet install · NEMA type 3R enclosure	
CHARACTERISTICS		
Standard Warranty Term	1 year	
Compliance	UL 60950-1 2nd Ed. Rev Dec 19 2011 · CSA C22.2 2nd Ed. Rev Dec 19 2011 · FCC Part 15 Class B · AS/NZS 60950.1:2011 Inc A1 · AS/NZS CISPR 22:2009+A1:2010 · EN 60950-1:2006+A11:2009+A1:2010+A12:2011 · EN 55022:2010 · EN 61000-3-2:2006+A1:2009+A2:2009 · EN 61000-3-3:2008 · EN 55024:2010 · EMC Directive 2004/108/EC	