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