



GreensunSolar

SMALL-SCALE C&I ESS SOLUTION

Model: GCB-E240



Total Protection

- Combustible gas, smoke and temperature detection
- Active exhaust system
- Fire alarm

Integrated Technology

- EMS, hybrid inverter and BMS integration technology
- Power supply redundancy design
- Support for black start function, off-grid operation

Safety Protection

- Lithium iron phosphate (LFP) batteries, battery packs and systems all use aerosol fire suppression solutions

Flexible Expansion

- Supports up to 10 sets in parallel

Technical Data

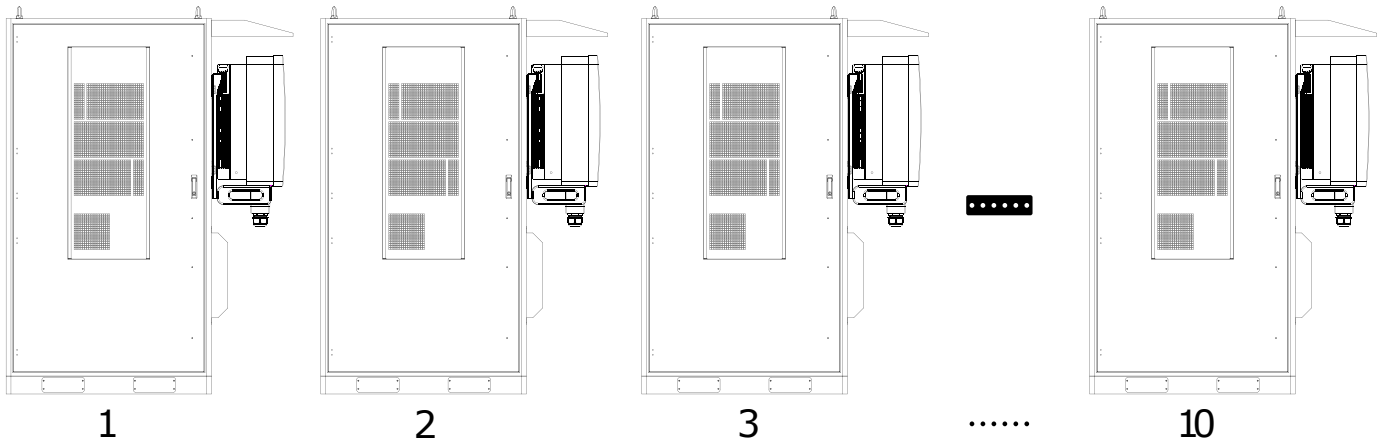
Model		GCB-E240
Main Parameter		
Cell Chemistry		LiFePO4
Module Energy (kWh)		16.076
Module Nominal Voltage (V)		51.2
Module Capacity (Ah)		314
Battery Module Qty In Series		15
System Nominal Voltage (V)		768
System Operating Voltage (V)		672V~852V
System Energy (kWh)		241.15
System Usable Energy (kWh) 90%		217.03
Charge/Discharge	Nominal	157A
Current(A)	Peak Discharge	157A
Other Parameter		
Thermal Management		Smart fan cooling
LCD Display		SOC/ Voltage/Tem/Time/Fault Code
Working Temperature (°C)		Charge:0~55/Discharge :-20-55
Status Indicator		Wake Up/Power light
Communication Port		CAN/RS485
Humidity		5%~85%RH
Altitude		≤2000m
IP Rating of Enclosure		IP55
Dimension (W*D*H, mm)		1150*1350*2420mm
Weight Approximate (kg)		3000kg
Installation Location		Floor-Mounted
Storage Temperature (°C)		0~35°C
Recommend Depth of Discharge		90%
Cycle Life		25±2°C, 0.5C/0.5C, DOD80%≥6000
Warranty		10 years
Certification		CE/UN38.3/MSDS

System Information

Model	GCB-E240-80KW	GCB-E240-100KW	GCB-E240-125KW
System Specification			
Nominal Output Power / UPS Power	80kw	100kw	125kw
AC Output Frequency and Voltage	50Hz/60Hz; 220V/380V,230V/400V		
Grid Type	3L/N/PE		
Number of Parallel (Off-grid)	10		
AC Output Rated Current (A)	121.6A/115.5A	152A/114.3A	189.9A/180.4A
Battery Operating Voltage (V)	672V~852V		
Energy Configuration (kWh)	241.15		
System Usable Energy (kwh)	217.03		
Battery Chemistry	LiFePO4		
IP Rating of Enclosure	IP55		
Installation Method	Floor-Mounted		
Storage Temperature (°C)	0~35°C		
Operating Temperature (°C)	-20~55°C		
Warranty	10 years		
Certification	CE,UN3536		
Inverter Technical Specification			
Max. PV Input Power	160kw	200kw	250kw
Max. PV Input Current (A)	10 X 42A		
Rated PV Input Voltage (Vdc)	1000		
Start Up DC Voltage (Vdc)	180		
MPPT Voltage Range (Vdc)	150-950V		
Max. PV Short-circuit Current (A)	10 X 60A		
Number of MPPT	10/20		
Power Factor	>0.99 (0.8 leading - 0.8 lagging)		
THD	<3%		
DC Injection current (mA)	<0.5% In		
Display	7.0" LCD display & Bluetooth+APP		
Operating Temperature Range (°C)	-25~60°C		
Relative Humidity	0-100%		
Dimension (W×D×H,mm)	1174×400×814mm		
Inverter Communication	CAN, RS485-115200, Ethernet, Optional: Wi-Fi, Cellular, LAN		
Grid Regulation	G99, VDE-AR-N 4105/VDE V 0124, EN 50549-1&2/EN 50549-10, VDE 0126/UTE C 15/VFR:2019, NTS 631/RD 1699/RD 244/UNE 206006/UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683,EN 50530, MEA, PEA,PORTARIA N° 140, DE 21 DE MARÇO DE 2022;		
Max. Efficiency	97.6%		
MPPT Efficiency	97.2%		

Product Expansion

80kW/100kW/125KW Inverter selectable



All-in-one Energy & Device Management Platform

It displays detailed data of the current device, allowing you to view the charging and discharging power and charging and discharging time data of the battery and inverter separately and supports time filtering

