



GreensunSolar

SMALL-SCALE C&I ESS SOLUTION

Model:GCB-E113



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

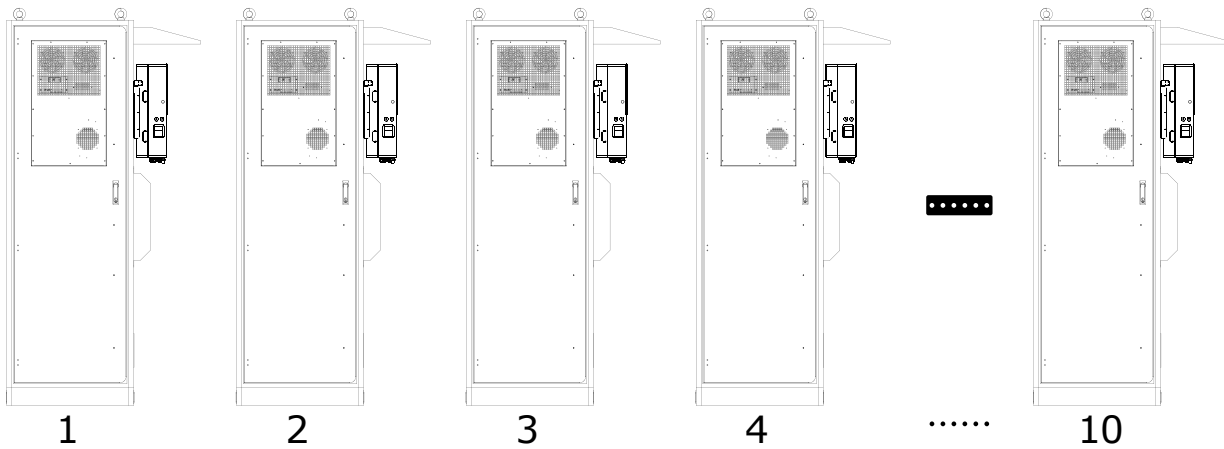
Model		GCB-E113
Main Parameter		
Cell Chemistry		LiFePO4
Module Energy (kWh)		16.076
Module Nominal Voltage (V)		51.2
Module Capacity (Ah)		314
Battery Module Qty In Series		7
System Nominal Voltage (V)		358.4
System Operating Voltage (V)		314V~398V
System Energy (kWh)		112.53
System Usable Energy (kWh) 90%		101.28
Charge/Discharge	Nominal	157A
Current(A)	Peak Discharge	157A
Other Parameter		
Thermal Management		Battery module: Smart fan cooling; Cabinet: Air conditioner 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)		759*970*2375mm
Weight Approximate (kg)		1100kg
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		UN38.3/MSDS

System Information

Model	GCB-E113-30KW		GCB-E113-50KW	
System Specification				
Nominal Output Power / UPS Power	30kw		50kw	
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)	45.5A/43.5A		75.8A/72.5A	
Battery Operating Voltage (V)	160V~800V			
Energy Configuration (kWh)	112.53			
System Usable Energy (kwh)	101.28			
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	UN3536			
Inverter Technical Specification				
Max. PV Input Power	60kw		100kw	
Max. PV Input Current (A)	3 x 36A		4 x 36A	
Rated PV Input Voltage (Vdc)	1000			
Start Up DC Voltage (Vdc)	180			
MPPT Voltage Range (Vdc)	150-850V			
Max. PV Short-circuit Current (A)	3 X 55A		4 X 55A	
Number of MPPT	3/2+2+2		4/2+2+2+2	
Power Factor	0.8 leading - 0.8 lagging			
THD	<3%			
DC Injection current (mA)	<0.5% In			
Operating Temperature Range (°C)	40 to +60°C, >45°C Derating			
Relative Humidity	0-100%			
Dimension (W×D×H,mm)	527×294×894mm			
Inverter Communication	RS485/RS232/CAN			
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105			
Max. Efficiency	97.6%			
MPPT Efficiency	>99%			

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

