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

Greensun Solar Energy Tech Co., Limited Web: www.greensunpv.com Email: manager@greensunpv.com V1.0

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 Current(A)	Nominal	157A
	Peak Discharge	157A

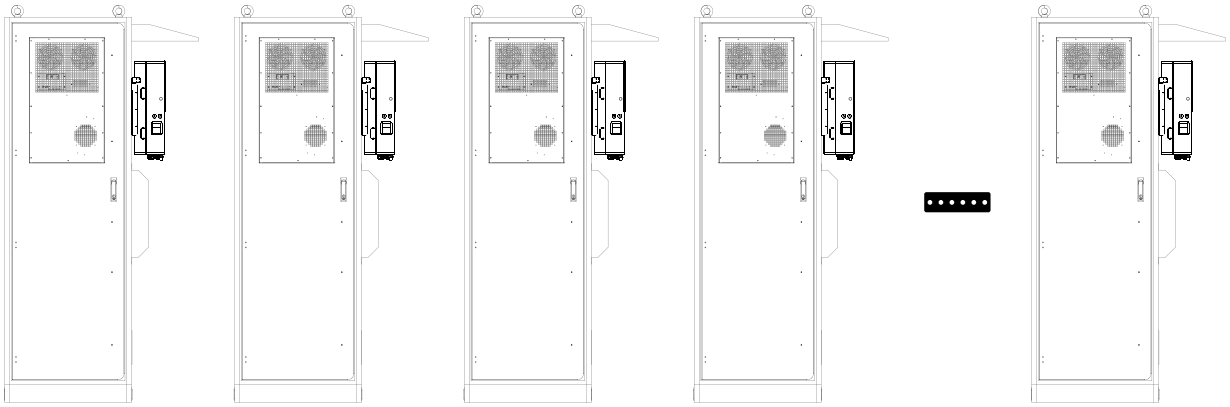
Other Parameter	
Thermal Management	Smart fan cooling
LCD Display	SOC/ Voltage/Tem/Time/Fault Code
Working Temperature (°C)	Charge:0~55/Discharge :-20-55
Status Indicator	Wake Up/Power light
Communication Port	CAN/RS485
Humidity	5%~85%RH
Altitude	≤2000m
IP Rating of Enclosure	IP55
Dimension (W*D*H, mm)	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℃, 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℃, >45℃ 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