GR1000LC

GOOREE
GREEN THE FUTURE



MSDS UL IEC UN38.3 RoHS ISO 14001

Features

Safe and Reliable

- Active safety protection with early warning and positioning of faulty cells
- Adopts three-dimensional active safety protection covering equipment, assets and personnel
- Outdoor IP55 protection degree and C3 anti-corrosion design

Intelligent & User-friendly

- Integrated design incorporates key equipment such as battery system, inverter and charging pile.
- Suitable for integrated PV-energy storage-charging application scenarios
- Plug-and-play solution with modular design concept, easy for transportation and installation, and able to shorten the construction period

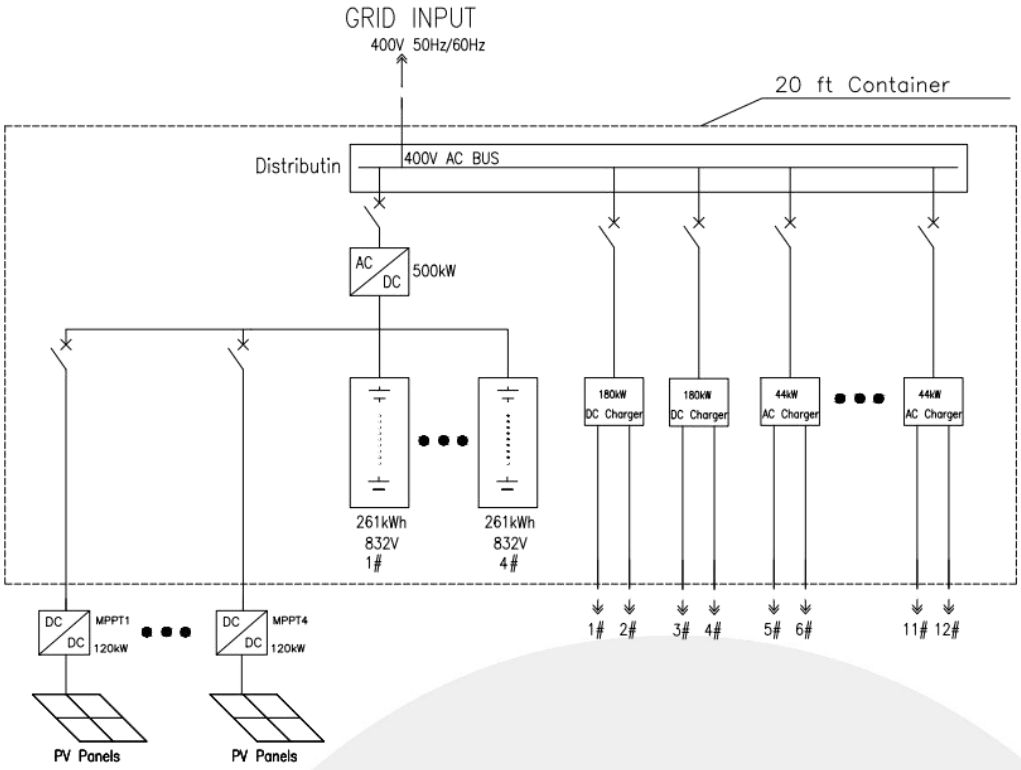
Cost-Effective & Efficient

- Superimposed benefits across multiple scenarios and improved ROI
- Energy management and maximization of system efficiency
- O&M cost optimization and cycle life economic efficiency

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Electrical Diagram



Specification Parameters

Model	GR1000LC
DC Side	
Cell type	LFP / 314Ah
Battery capacity (BOL)	1044 kWh
System configuration	(52S1P) 5S * 4
Rated DC voltage	832 V
DC voltage range	702 ~ 949 V
Charge/discharge rate	≤0.5P
Cooling Method	Liquid cooling
PV Side	
MPPT Module Power	120kW*4
MPPT Input Quantity	4 to 16 channels optional
PV voltage range	200V~900V
MPPT voltage range	600V~950V
Protection level	IP55
Dimensions (W*H*D)	630x480x260mm

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Model	GR1000LC
AC charging station side	
Power	44kW*4
Voltage range	230/400VAC±20%
Protection level	IP55
Frequency	50Hz/60Hz
Dimensions (W*H*D)	320x1450x239mm
DC charging pile side	
Rated power	180kW*2
Voltage range	400VAC±10%
Protection level	IP55
Frequency	50Hz/60Hz
Dimensions (W*H*D)	850x2000x750mm
AC side	
Rated power	500kW
Rated voltage	400V
Voltage range	320-460V
Frequency	50Hz/60Hz
Wiring method	3W+PE/3W+N+PE
Dimensions (W*H*D)	1000x2050x700mm
System parameters	
Dimensions (W*H*D)	6058×2896×2438mm
Weight	< 25T
Number of charge and discharge cycles	≥6000 cycles； @25℃,95%DOD,0.5P,SOH80%
Fire protection system	Perfluorohexanone (PFH) chamber firefighting; municipal water firefighting; combustible gas detection.
Thermal management methods	Liquid cooling
Ambient operating temperature range	Standard -20~55℃ ; (-30~+55℃ with Heater-Optional)
High Altitude Usage Instructions	< 4000m
IP level	IP55
External communication protocol	Modbus 、4G（MQTT）
Corrosion resistance level	C3
Certification	IEC 62619、EN 62477-1、 IEC 61000-6-2、IEC 61000-6-4
Application scenarios	Photovoltaic-storage-charging integrated application