



Photovoltaic Storage and Charging Product Introduction

IN PARTNERSHIP WITH



Shenzhen Greenova Power Group Co.Ltd With Akeenah bringing Photovoltaic Storage and Charging solutions at:

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Company Introduction

Greenova is a leading manufacturer of electric vehicle (EV) charging solutions, headquartered in Shenzhen, Guangdong Province, with a state-of-the-art facility covering 30,000m². With a workforce of over 80 R&D experts and 500 skilled workers, Greenova has been at the forefront of innovation in the new energy sector for more than 15 years.

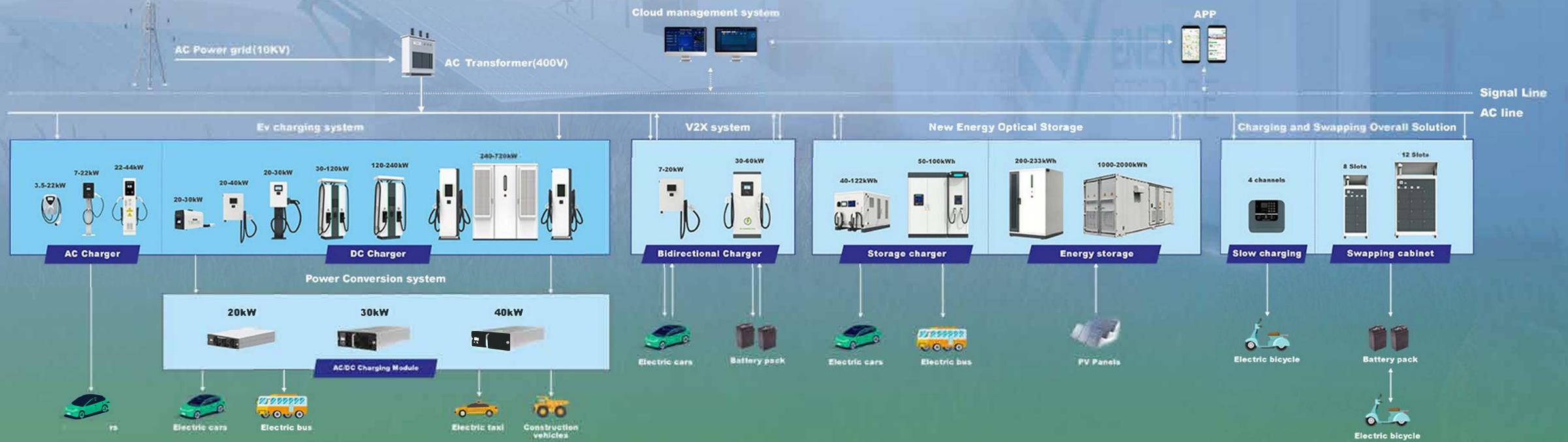
We mainly operates four major product lines like EV Charging Solutions ,PV Energy Storage Charging Products,Charging and Swapping Systems, Electric Energy Conversion Products,

Our products have more than 35 core technologies, obtained over 75 patents, and had passed the international quality system certification. Supported by ISO-certified quality management systems and internationally recognized certifications, including CE, TUV, and RoHS. We also provide comprehensive OEM and ODM services to meet diverse client needs.

Also our products have been covered all over 50+ countries,Covering like Middle East, East South Asia ,Middle Asia,South Amercia,European,US ect. .

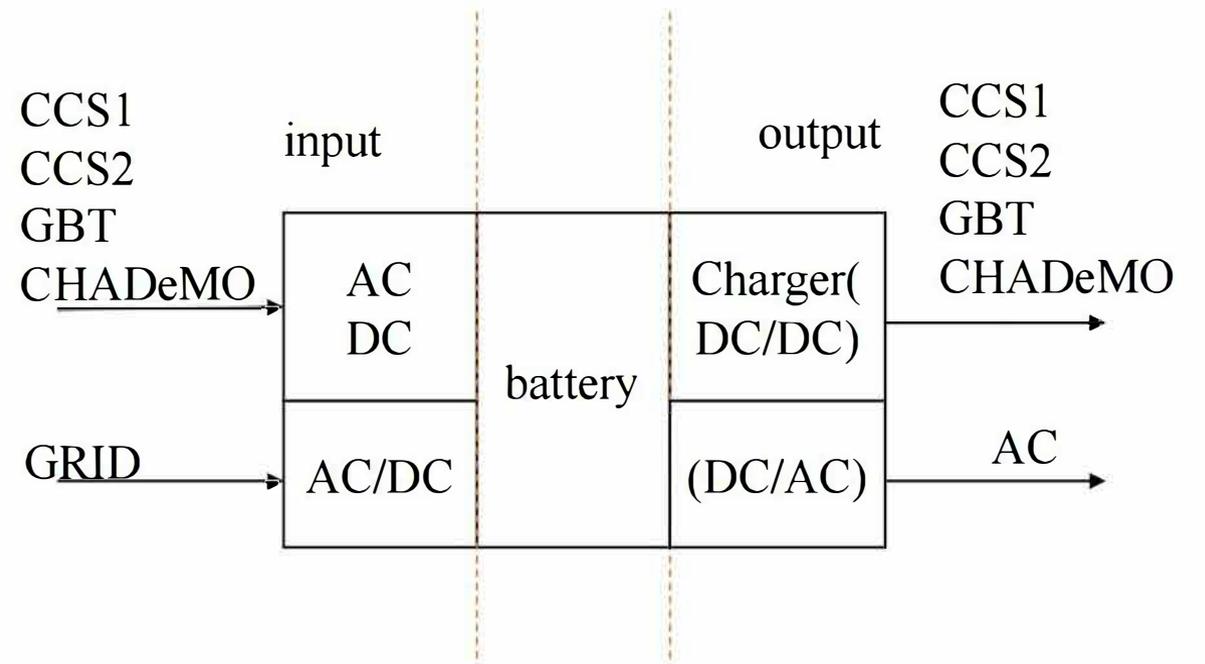


OPTICAL STORAGE REPLACEMENT SOLUTION



1. Mobile Storage and Charging Equipment

Application scenarios: Roadside assistance, emergency power backup, power replenishment for construction vehicles, and mobile power replenishment in logistics parks.



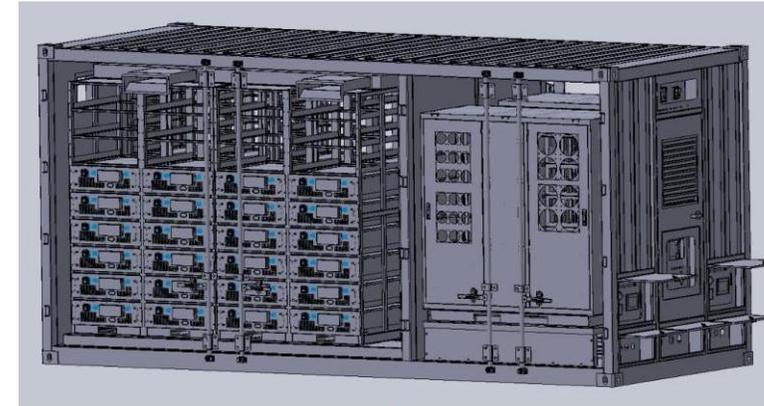
1.1 Small and Medium-Sized Mobile Storage and Charging Equipment

Product Model	GN-RRC316K-180	GN-RRC210K-180	GN-RRC158K-120	GN-RRC64K-50
Battery parameters				
Battery level	316kWh	210kWh	158kWh	64kWh
Rated voltage	691.2	691.2	691.2	691.2
Cooling method	Liquid Cooling	Liquid Cooling	Liquid Cooling	Air Cooling
Cell Type	230Ah lithium iron phosphate	304Ah lithium iron phosphate	230Ah lithium iron phosphate	120Ah lithium iron phosphate
Charger parameters				
power	180kW	180kW	120kW	50kW
Output voltage	150-1000Vdc	150-1000Vdc	150-1000Vdc	150-1000Vdc
Maximum Current for Single Gun	300A	300A	300A	200A
Display screen	12.1 inches	12.1 inches	12.1 inches	12.1 inches
Number of charging guns	Double Gun	Double Gun	Double Gun	Double Gun
Charger standard	CCS1/CCS2/GBT/CHADeMO			
Machine parameters				
Size (mm)	2800*1400*1800	2800*1400*1800	2800*1400*1800	1800*1200*1200
AC input and output power	50kW	50kW	50kW	3kW
AC input and output voltage	380VAC	380VAC	380VAC	220VAC
Weight	4t	3.5t	3t	1.3t
Ambient temperature (°C)	-20~55	-20~55	-20~55	-20~55
Noise	70dB	70dB	70dB	65db



1.2 1.5 MWh Mobile Power Supply Vehicle

Product Model	GN-RRC1500K-180
Battery parameters	
Battery level	1500kWh
Rated voltage	691.2
Cooling method	Liquid Cooling
Cell Type	Lithium Iron Phosphate
Charger parameters	
Power	2*240kW
Output voltage	150-1000Vdc
Maximum Current for Single Gun	300A
Display screen	12.1 inches
Number of charging guns	Double Gun
Charger standard	CCS1/CCS2/GBT/CHADeMO
Machine parameters	
Size (mm)	12050*2340*2680
Weight	20t
Ambient temperature (°C)	-20~55
Noise	75dB



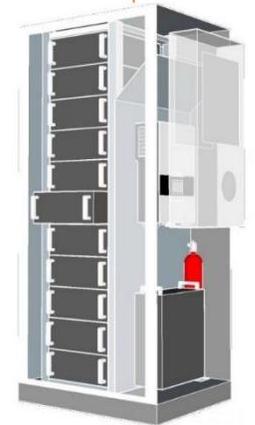
Mobile Power Replenishment Vehicle System



Control System for Mobile Power Replenishment Vehicles



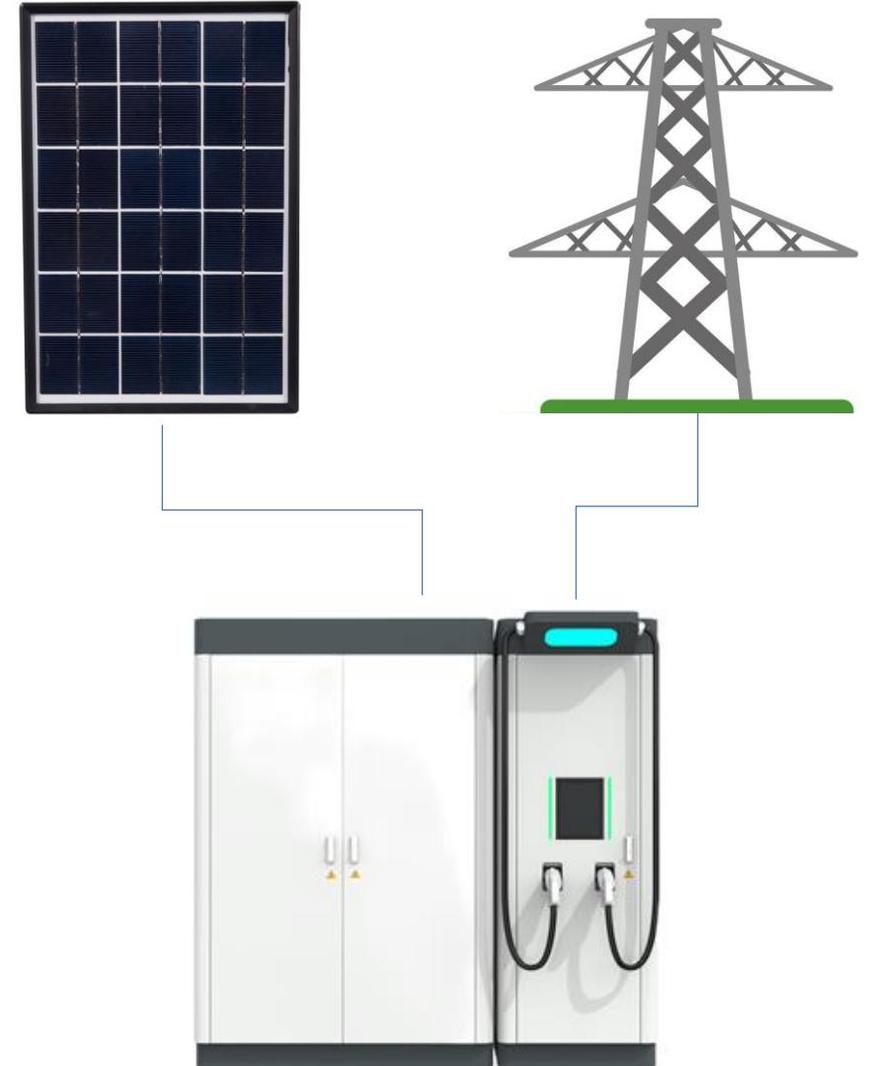
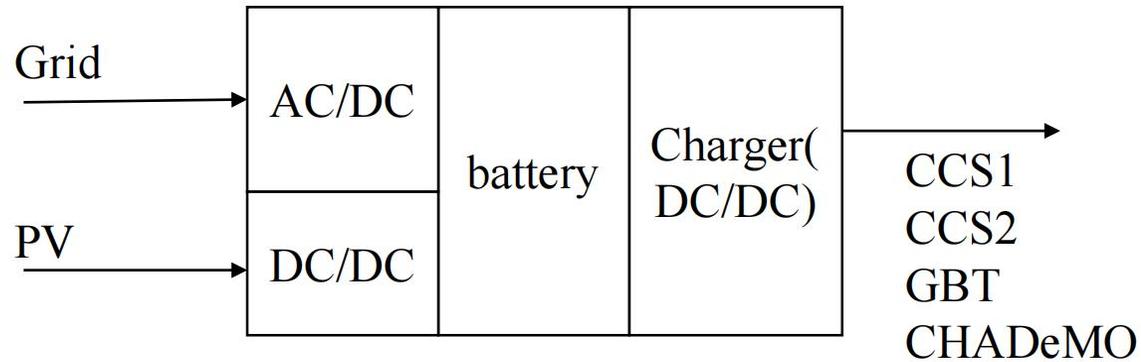
Power Distribution System for Mobile Power Replenishment Vehicles



Batteries, fire protection systems

2、 Photovoltaic Storage and Charging Integrated Equipment

Usage scenarios: small charging station scenarios with no mains power, unstable mains power, and insufficient mains power capacity, and smart microgrid systems with charging backup functions.



2.1、 Photovoltaic Storage and Charging Integrated Equipment

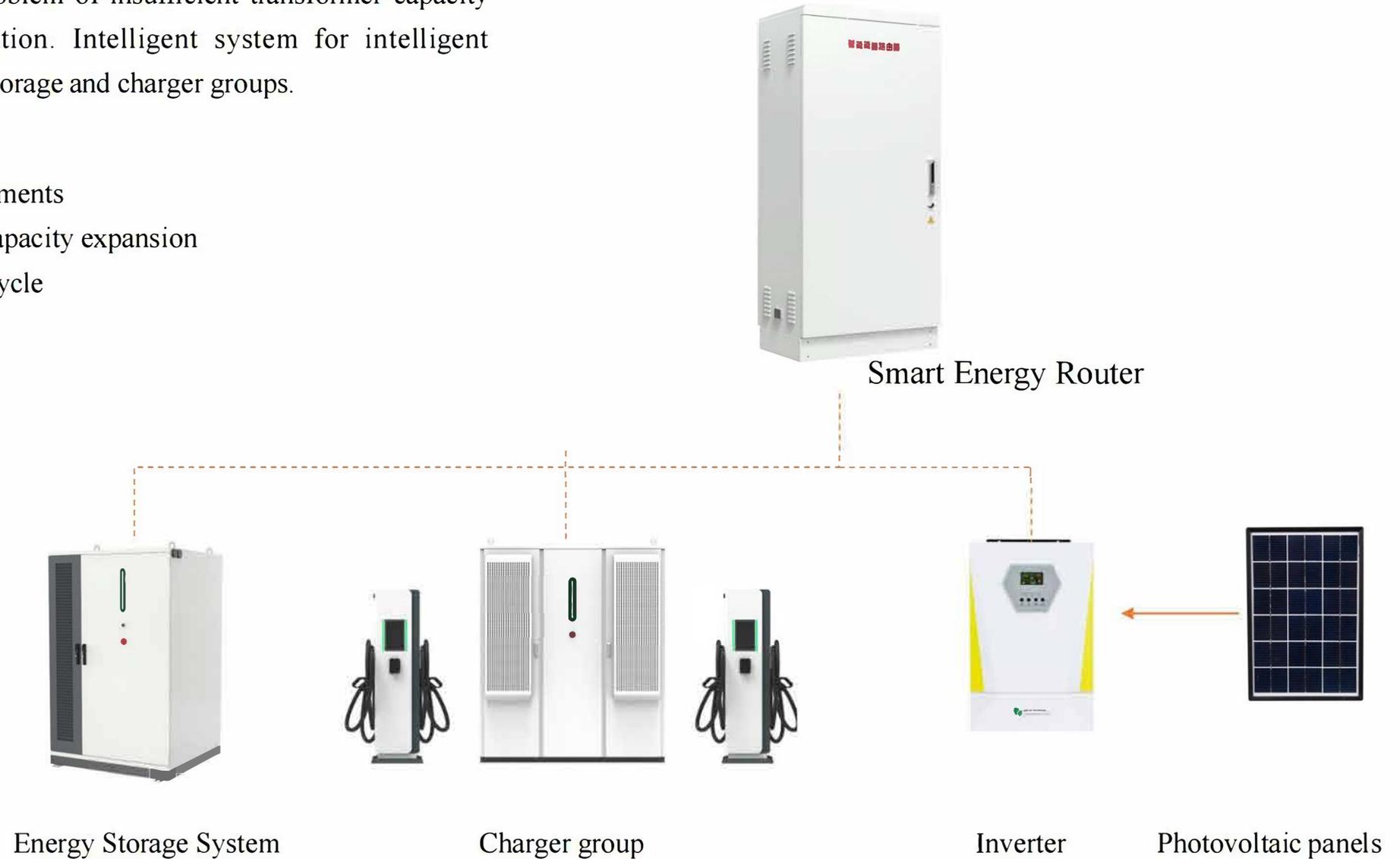
Product Model	GNCS200K-120	GNCS400K-240
Battery parameters		
Battery level	200kWh	400kWh
Rated voltage V	672	672
Cooling method	Air Cooling	Air Cooling
Cell Type	280Ah lithium iron phosphate	280Ah lithium iron phosphate
Charger parameters		
Power	120kW	240kW
Output voltage	150-1000Vdc	150-1000Vdc
Maximum Current for Single Gun	300A	300A
Display screen	12.1 inches	12.1 inches
Number of charging guns	Double Gun	Double Gun
Charger standard	CCS1/CCS2/GBT/CHADeMO	
Machine parameters		
Size (mm)	1300*1500*2100	1300*2300*2100
Weight	3t	5t
Mains power	50kW	100kW
Photovoltaic power	50kW	100kW
Ambient temperature (°C)	-20~55	-20~55
Noise	70dB	70dB



3、 Photovoltaic Storage and Charging Integrated Solution

Application scenarios: Solve the problem of insufficient transformer capacity and off-peak electricity consumption. Intelligent system for intelligent scheduling of photovoltaic, energy storage and charger groups.

- 1、 Reduce transformer power requirements
- 2、 Scaled pile construction without capacity expansion
- 3、 Shorten the return on investment cycle



3.1、 Photovoltaic Storage and Charging Integrated Solution

- 1、 Intelligently start and stop energy storage and chargers according to the load of the transformer.
- 2、 Peak power consumption: Control energy storage discharge, intelligently adjust charger power, and give priority to residents' electricity consumption. Low power consumption: Energy storage charging, intelligently adjust charger power.
- 3、 Intelligent energy management: Control photovoltaic power generation for self-use and connect surplus power to the grid.
- 4、 Anti-backflow detection: Real-time detection of transformer power to prevent photovoltaic and energy storage from backflowing to the grid.



4、 Industrial and Commercial Energy Storage Outdoor Cabinet

Usage scenarios: Industrial and commercial energy storage outdoor cabinets are suitable for industrial parks, electric vehicle charging stations, highway service areas and other scenarios with high electricity demand.

Product Model	GCC215K-100
Battery level	215kWh
Charge and discharge power	105kW
Cooling method	Liquid cooling / Air cooling
Cell Type	280Ah lithium iron phosphate
Grid voltage	380VAC
DC voltage range	672 ~ 876Vdc
Discharge Depth	≤95%
Cycle times	6000
Battery brand	EVE Energy
Pack voltage	153.6V
Noise	65dB
Size	1320*1250*2100
Protection level	IP54



5、 Industrial and Commercial Energy Storage Container System

Usage scenarios: Containerized energy storage systems can meet the needs of peak shaving, power quality improvement, capacity reduction and increase, emergency backup power, etc., and are widely used in scenarios such as ships, factories, user-side energy storage and microgrids.

Product Model	GCC1000K-500
Battery level	1000kWh
Charge and discharge power	500kW
Cooling method	Liquid cooling / Air cooling
Cell Type	280Ah lithium iron phosphate
Grid voltage	380VAC
DC voltage range	672 ~ 876Vdc
Discharge Depth	≤95%
Cycle times	6000
Battery brand	EVE Energy
Pack voltage	153.6V
Noise	65dB
Size	12050*2340*2680
Protection level	IP54



6、 Photovoltaic Storage and Charging System Case

