



KEEP YOUR LIGHTS ON.

■ What is Gaia?

The MagicPower Gaia energy storage system solution features a multi-modular system configuration, providing flexible matching for various commercial and industrial scenarios.



Gaia supports multi-mode operation, enhancing investment returns by enabling peak-valley time shift, peak shaving, and alleviating grid pressure. Suitable for applications with high requirements for grid continuity, it can be used for peak shaving and as a backup power source. Additionally, it is suitable for applications in microgrid scenarios.

Gaia utilizes battery clusters, PCS, EMS, BMS, fire protection systems, and HVAC (Heating, Ventilation, and Air Conditioning) systems that are all certified to the IEC 62619 standard, ensuring continuous power supply and synergistic operation with photovoltaic systems.

- Rapid deployment
- Off-grid and on-grid
- Access to real-time electricity prices and smart strategy creation



Advantages



Certification: Batteries certified to IEC 62619, EN: 61000 PCS: IEC 62477; EN: 61000; EN 50549; Transportation: UN3536

Cloud-Edge Collaboration: Supports automatic retrieval of electricity pricing data to generate charging and discharging strategies

Open System Protocol to VPP, participating in the optimization of grid operations

System Parameters

Model	MQK-500kW-1000kWh / MQK-500kW-1000kWh-TS
Specification	500KW/1MWh
Battery Side	
Cell Type	LFP
Cell Capacity	280Ah
Module Capacity	215kWh
Battery Cluster String	1P240S*5
PCS Parameter(On-Grid)	
Nominal Power	500kW
Nominal Voltage	AC400V
Nominal Frequency	50Hz / 60Hz
System Parameter	
Cooling Mode	Air conditioning
Noise	<68dB (1m)
IP	IP54
Altitude	3000m (>2000m Derating)
Temperature Range	-30°C to 50°C
Humidity Range	0~95%RH
Output overload capacity	110% load@ 10min; 120% load@1min
Communication Protocol	Modbus RTU / Modbus TCP
Certification	EN61000, IEC62619; EN50549; UN3536
Dimension(W*D*H)(approx.)	6058*2438*2896mm
Total Weight (approx.)	about 20t



Introduction to PCS

The Gaia containerized energy storage system integrates energy storage battery, modular PCS, energy management monitoring system, and distribution system. With modular PCS, it is easy to maintain and expand. The outdoor cabinet adopts front maintenance, which can reduce the area and maintenance channel. It has the characteristics of safe, reliable, fast deployment, low cost, high energy efficiency and intelligent management.

Common application scenarios and operation strategies are as follows:

Grid-connected mode:

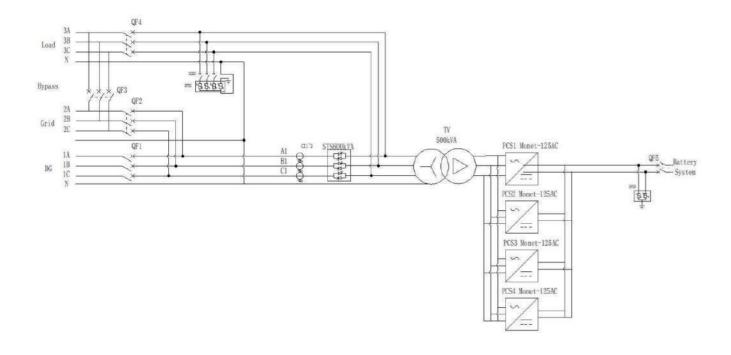
The energy storage converter is connected to battery, photovoltaic or other DC sources, and is converted into AC power through AC/DC power module to merge into the power grid.

It can achieve the following:

Energy storage battery access realizes peak shaving and valley filling, and arbitrage of electricity price difference. Photovoltaic power generation realizes profit from selling electricity.



■ PCS Electrical Schematic



Data Sheet

Model	MQK-500kW-1000kWh / MQK-500kW-1000kWh-TS
DC-side parameters	
Operate voltage range	600~1000V
Maximum DC current	200A*4
Adaptive battery	Lithium / lead-acid / Solar panel (MPPT)
Charging mode	According to BMS instructions / three-stage / MPPT
Operating mode	Constant current, constant power, MPPT, AC voltage source, DC voltage source
AC-side parameters (on-grid)	
Rated Max.AC power	500 / 550kW
Rated AC current	760A
Rated AC voltage	380V, 3W+N+PE / 3W+PE
Rated AC frequency	50/60Hz±5Hz
THDI	<3% (Rated power)
Power Factor	-1 leading to +1 lagging
AC-side parameters (off-grid)	
Rated AC voltage	380V
Rated AC frequency	50 / 60Hz
THDU	<3% (LinearLoad)
Overload capacity	110%, normal operation; 120%, 1 minute
General parameters	
Degree of protection	IP54(Outdoor)
Protective Class	I
Shutdown self-discharge	<100W (Without transformer)
Display	LCD
Relative humidity	0~95% (no condensation)
Noise	<78dB
Ambient temperature	-25°C to +60°C (derating above 45°C)
Cooling mode	Inteligent air-cooled
Altitude	3000m (>3000mreduction)
Communication interface	RS485 / CAN / Ethernet
Dimensions (W*D*H)	1200*1000*2300mm (Indoor)
Weight(approx.)	2050kg (Indoor)

Battery Cluster 215kwh

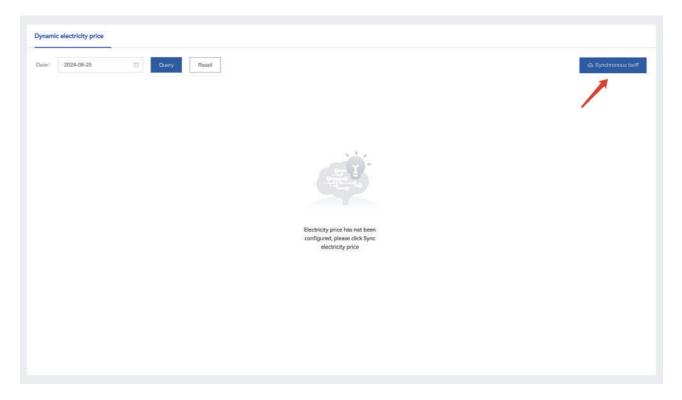


Model	MQK-500kW-1000kWh / MQK-500kW-1000kWh-TS
Cell Type	LFP
Nominal Energy	215.04kWh
Configuration	240S1P
Weight	1650kg
Nominal Capacity	280Ah
Nominal Voltage	768V
Voltage Range	672Vdc~816Vdc
Max.Charge Current	200A
Max.Discharge Current	200A
Certifications	UN38.3 / UL1642 (Cell)
Operating Temperature	0°C~55°C
Recommended Temperature	25°C
Communication	RS485/CAN
IP	IP20
Cycle Life	≥6000,80%D0D@25°C
Discharge Depth	90%

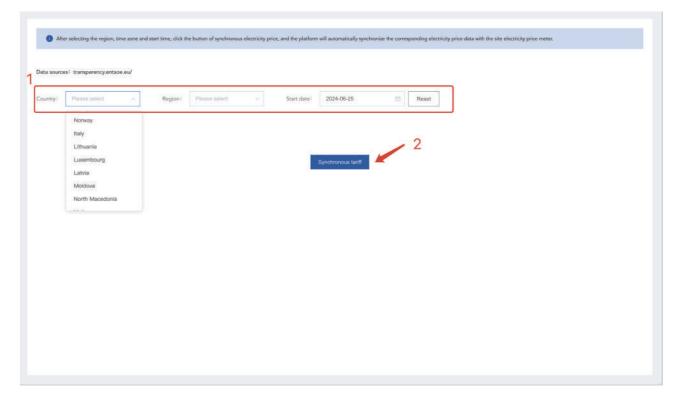
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■ Introduction to EMS Dynamic Electricity Pricing Strategy

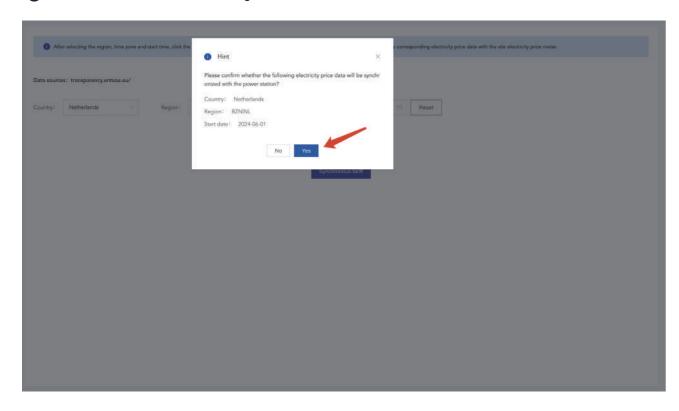
1 Initial page: There is no electricity price information, and users need to perform the "Sync Electricity Price" operation. (Click the button on the picture)



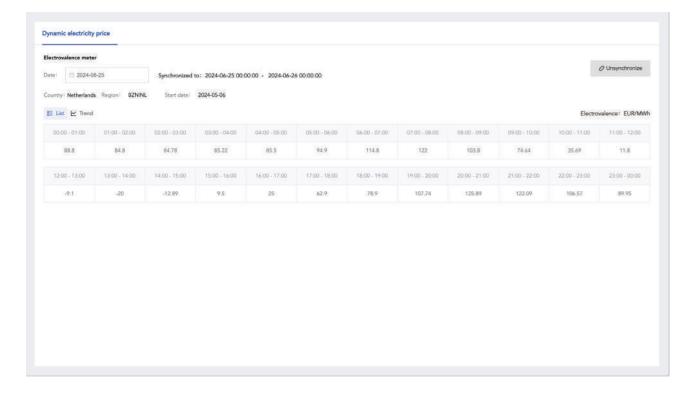
2 Synchronized electricity price configuration page: After the user selects the region and start time, click the "Synchronized electricity price" button.



3 Second confirmation: After confirming that the information is correct, click "Yes".

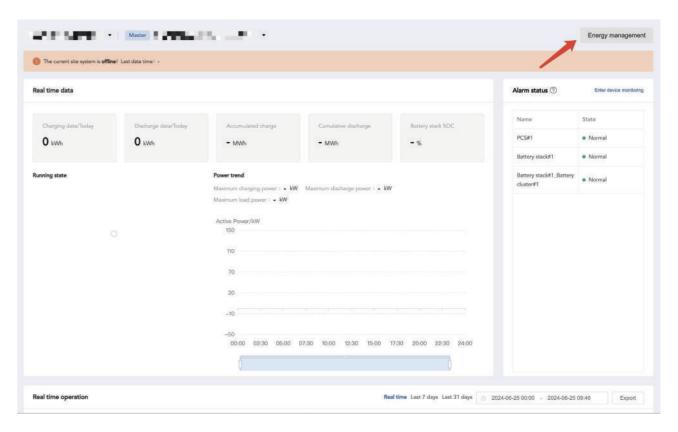


4 Electricity price page: After the operation is completed, you can see the corresponding electricity price information on the electricity price page.

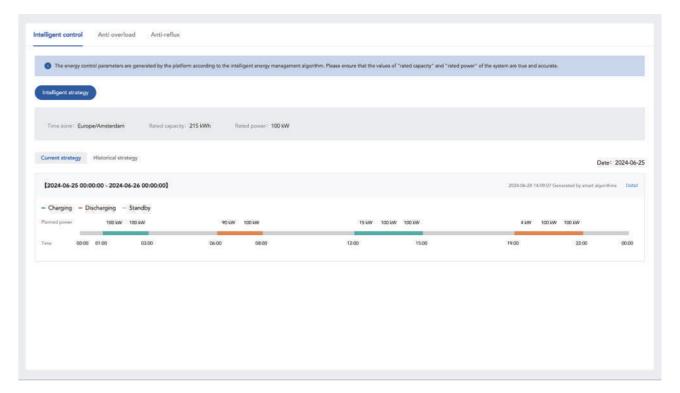


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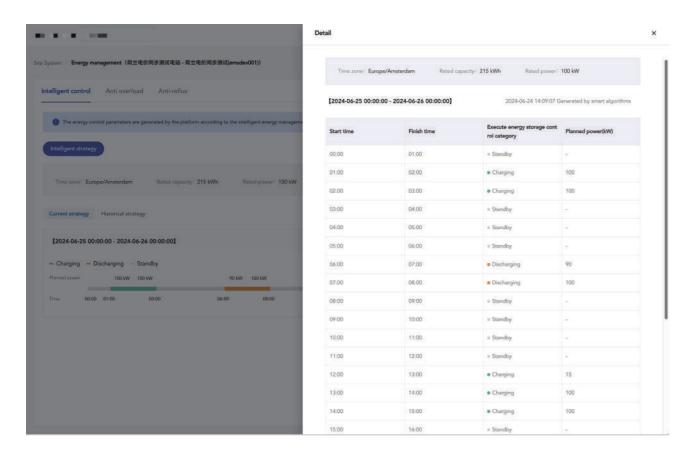
Function entrance: After the platform side opens the function, click the "Energy Management" button.



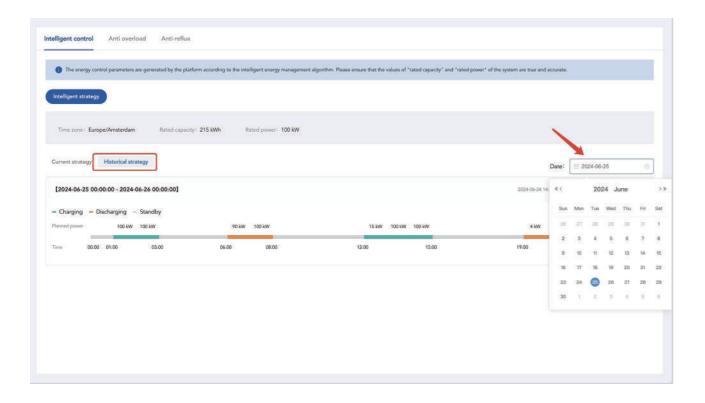
Control page: Display the policies generated and issued by the algorithm every day.



Policy details: Support to view the details of the policy every day.



Historical policies: View historical policy content is available.



CASE STUDY

Integrated Energy Storage Solution Off-Grid EV Charging Stations Q South Africa

Our collaboration with local and international partners in South Africa showcases our capability to provide localized and customized energy solutions tailored to specific regional needs and conditions.



Customer Requirements



558 kWh Liquid Cooling Energy Storage System

0.5C Discharge Rate

250kW PCS

300 kWp PV input MPPT

480kW Charging Module; Limited Capacity

22kW charger 2pcs

3 x Charging Stations, each Station with a 500A Liquid Cooling Gun and a 200A Air Cooling Gun and 2 x 22 kW AC chargers

Isolation transformer 250kW

Expansion in the future with 250 kW PCS and 558 kWh batteries

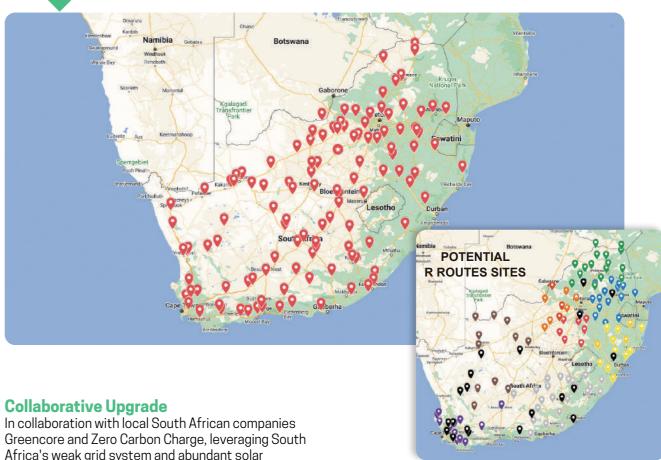
The system operates off-grid



Background

Map: 120+ sites in development

Off-grid charging stations for passenger & commercial vehicles up to 8 tonnes



In collaboration with local South African companies Greencore and Zero Carbon Charge, leveraging South Africa's weak grid system and abundant solar resources, the commonly seen domestic integrated photovoltaic energy storage and charging stations have been upgraded to a pure off-grid system reliant on photovoltaic power.

Overcoming Challenges

This upgrade has addressed issues such as unstable busbars, system instability, and slow diesel generator start-up speeds. The first two pilot sites have already broken ground, and over the next five years, this model will be progressively implemented at 120 charging stations across South Africa, primarily around urban areas and along highways.

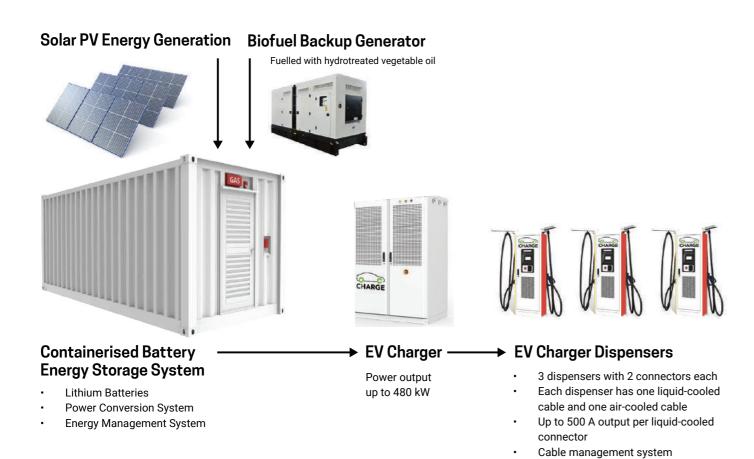
Research and Global Application

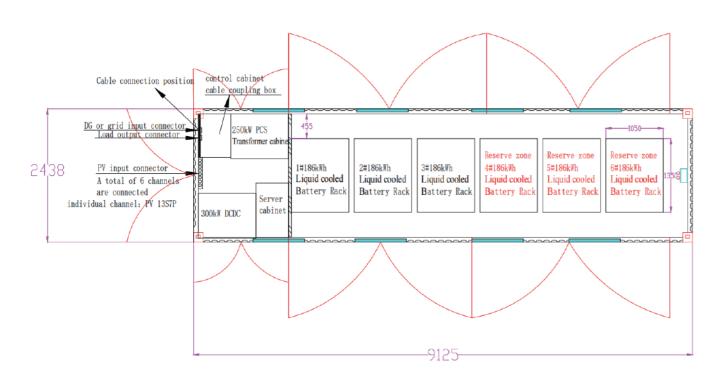
The research achievements have enabled the international application of pure off-grid photovoltaic storage and charging systems, providing a template for promoting new energy systems and electric vehicles in regions with weak grid infrastructure.

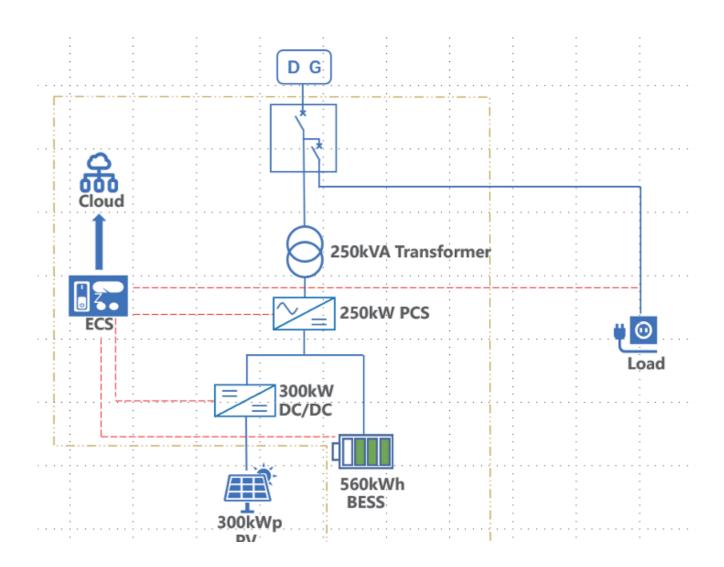
Phase 2:

Site expansion according to power demand & targeting more regional and urban routes.

System Solution







Rated Power	250kVA
PV Capacity	300kWp
Battery Capacity	558kWh
Cooling Methed	Liquid Cooling
Discharge Rate	0.5C
Charging System	480kW DC Charger+500A liquid-cooling Dispenser*3
Charging Protocal	OCPP 1.6J
Communication	Wifi/LAN/LTE
Container	30-Foot Container
Isolation Transformer	250kVA
Operation Methed	Off-Grid

PCS Specifications

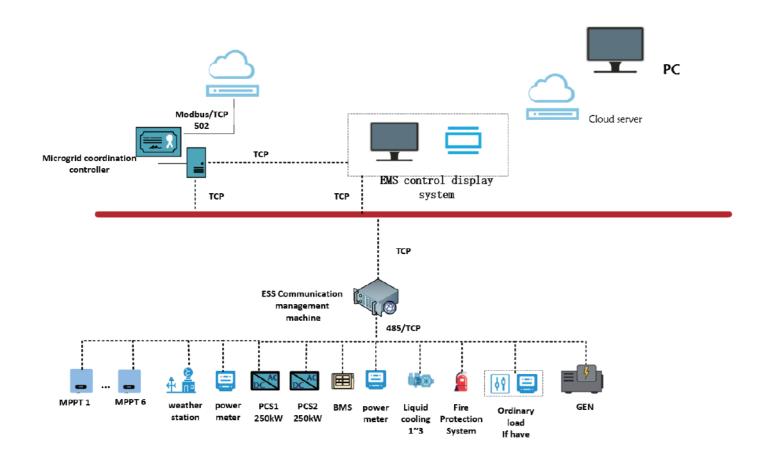
Connection Method Three-phase Four-wire AC Overload Capacity 275 KVA Grid-Connected Operation Mode Allowed Grid Voltage Allowed Grid Frequency Total Current Harmonic Distortion Rate Voltage Ripple Coefficient	AC Parameters	
AC Overload Capacity 3rid-Connected Operation Mode Allowed Grid Voltage Allowed Grid Voltage Allowed Grid Frequency Fotal Current Harmonic Distortion Rate Voltage Ripple Coefficient - 20wer Factor Balanded Operation Mode Rated Output Voltage Output Voltage Distortion Rated Output Frequency Color Voltage Pistortion Assimum DC Power Cover Against Accuracy Current Regulation Accuracy 20wer Regulation Accuracy 20wer Regulation Accuracy 30wer Balanded Operation Assimum DC Current Assimum DC Current Assimum Conversion Efficiency 39ystem Parameters Maximum Conversion Efficiency 39ras 10wer Against Accuracy 275 kW 20curent Regulation Accuracy 39ystem Parameters Maximum Conversion Efficiency 39ras 20mensions (Width * Height * Depth) Allowed Ambient Temperature Cooling Method Alicovable Relative Humidity Allowed Balative Humidity Allowed Baltitude 3000m (De-rating above 3000m) Display and Communication Display Touch Screen Communication Protocol Modbus TCP/RTU.IEC104	Rated AC Power	250 kVA
Allowed Grid Voltage Allowed Grid Voltage Allowed Grid Voltage Allowed Grid Frequency Fotal Current Harmonic Distortion Rate Voltage Ripple Coefficient Cower Factor Slanded Operation Mode Rated Output Voltage Distortion Rated Output Voltage Distortion Rated Output Voltage Distortion Rated Output Frequency So/60 (-2.52.5 Adjustable) Vac Dutput Voltage Distortion Courtent Sold Current Rated Output Frequency Sold C-2.52.5 Adjustable) Hz Corporaters Maximum DC Power Allowed Range Maximum DC Current Foliage Regulation Accuracy Current Regulation Fficiency Current Regulation Accuracy	Connection Method	Three-phase Four-wire
Allowed Grid Voltage 380/400 (15%-15%) Vac Allowed Grid Frequency 50/60 (-2.5-2.5) Hz Total Current Harmonic Distortion Rate	AC Overload Capacity	275 KVA
Solid Current Harmonic Distortion Rate Colorent Harmonic Distortion Colorent Co	Grid-Connected Operation Mode	
Total Current Harmonic Distortion Rate Voltage Ripple Coefficient 21% 20wer Factor 8 Sanded Operation Mode Rated Output Voltage 20utput Voltage Distortion Rated Output Frequency 50/60 (-2.5~2.5 Adjustable) Hz 20C Parameters Maximum DC Power 275 kW 20C Voltage Range Maximum DC Current Voltage Regulation Accuracy 2urrent Regulation Accuracy 2urrent Regulation Accuracy 3ystem Parameters Maximum Conversion Efficiency 2ining System Parameters Allowable Relative Humidity Allowable Relative Humidity 3u00m (De-rating above 50°C) Allowable Relative Humidity 3u00m (De-rating above 3000m) Display and Communication Display Touch Screen Communication Interface RS 485, Ethernet, CAN Modbus TCP/RTU.IEC104	Allowed Grid Voltage	380/400 (-15%~15%) Vac
Voltage Ripple Coefficient Value Power Factor Power Factor Salanded Operation Mode Rated Output Voltage Saloy400 (-10%-10% adjustable) Vac Output Voltage Distortion Rated Output Frequency Soloto Parameters Maximum DC Power Oc Voltage Range Coursent Voltage Regulation Accuracy Informations Efficiency Dimensions (Width * Height * Depth) Neight Noise Protection Level Allowable Relative Humidity Allowable Relative Humidity Allowable Altitude Display and Communication Display and Communication Communication Interface RS 485, Ethernet,CAN Modbus TCP/RTU.IEC104	Allowed Grid Frequency	50/60 (-2.5~2.5) Hz
Power Factor 0.99/1–1 Islanded Operation Mode Rated Output Voltage 380/400 (-10%~10% adjustable) Vac Output Voltage Distortion 1.1% (Linear Load) Rated Output Frequency 50/60 (-2.5~2.5 Adjustable) Hz OC Parameters Maximum DC Power 275 kW OC Voltage Range 600~900 Vdc Maximum DC Current 625 A Voltage Regulation Accuracy 1.% Current Regulation Accuracy 4.1% System Parameters Maximum Conversion Efficiency 97.3% Dimensions (Width * Height * Depth) 1100*2160*800mm Weight 2600 kg Protection Level 1.920 Alloweble Relative Humidity 0~95% (No condensation) Allowable Relative Humidity 0.95% (No condensation) Allowable Relative Humidity 1.00 Screen Display and Communication 1.00 Screen Communication Interface RS 485, Ethernet, CAN Communication Protocol Modbus TCP/RTU.IEC104	Total Current Harmonic Distortion Rate	<3%
Slanded Operation Mode Rated Output Voltage 380/400 (-10%-10% adjustable) Vac Output Voltage Distortion 1380/400 (-10%-10% adjustable) Vac Output Voltage Distortion 1380/400 (-10%-10% adjustable) Vac Output Voltage Distortion 50/60 (-2.5~2.5 Adjustable) Hz OC Voltage Rouge Maximum DC Power OC Voltage Range OC Voltage Range OC Voltage Regulation Accuracy OUTPOUT OUTP	Voltage Ripple Coefficient	<1%
Rated Output Voltage 380/400 (-10%~10% adjustable) Vac Output Voltage Distortion 1380/400 (-10%~10% adjustable) Vac Output Voltage Distortion Rated Output Frequency 50/60 (-2.5~2.5 Adjustable) Hz DC Parameters Waximum DC Power 275 kW DC Voltage Range 600~900 Vdc Maximum DC Current 625 A Voltage Regulation Accuracy 1% Current Regulation Accuracy 4+1% System Parameters Maximum Conversion Efficiency 97.3% Dimensions (Width * Height * Depth) 1100*2160*800mm Weight 2600 kg Voise 775 dB Portection Level 1P20 Allowed Ambient Temperature -20~60°C (Derating above 50°C) Cooling Method Air-cooled Allowable Relative Humidity 0~95% (No condensation) Allowable Altitude 3000m (De-rating above 3000m) Display and Communication Display Touch Screen Communication Interface RS 485, Ethernet,CAN Communication Protocol	Power Factor	0.99/-1~1
Output Voltage Distortion Rated Output Frequency S0/60 (-2.5~2.5 Adjustable) Hz OC Parameters Maximum DC Power 275 kW OC Voltage Range 600~900 Vdc Maximum DC Current 625 A Voltage Regulation Accuracy 176 Current Regulation Accuracy 378 System Parameters Maximum Conversion Efficiency Dimensions (Width * Height * Depth) Noise 775 dB Protection Level Allowed Ambient Temperature Cooling Method Allowable Relative Humidity Allowable Relative Humidity Display and Communication Display Communication Interface RS 485, Ethernet,CAN Communication Protocol Maximum Conversion Interface RS 485, Ethernet,CAN Communication Protocol	Islanded Operation Mode	
Rated Output Frequency DC Parameters Maximum DC Power CV Voltage Range Maximum DC Current Moltage Regulation Accuracy Current Regulation Accuracy Maximum Conversion Efficiency Dimensions (Width * Height * Depth) Neight Potection Level Allowed Ambient Temperature Cooling Method Allowable Relative Humidity Allowable Altitude Display and Communication Display Communication Interface Maximum Conversion Bollowed (C.2.5~2.5 Adjustable) Hz D75 kW D75 kM D75 kN D75 k	Rated Output Voltage	380/400 (-10%~10% adjustable) Vac
Maximum DC Power 275 kW CV Voltage Range 600~900 Vdc Maximum DC Current 625 A Voltage Regulation Accuracy 1% Current Regulation Accuracy 4+1% System Parameters Maximum Conversion Efficiency 97.3% Dimensions (Width * Height * Depth) 1100*2160*800mm Weight 2600 kg Protection Level IP20 Allowed Ambient Temperature -20~60°C (Derating above 50°C) Cooling Method Air-cooled Allowable Relative Humidity 0~95% (No condensation) Allowable Altitude 3000m (De-rating above 3000m) Display and Communication Display Touch Screen Communication Interface RS 485, Ethernet, CAN Communication Protocol Modbus TCP/RTU.IEC104	Output Voltage Distortion	<1% (Linear Load)
Maximum DC Power 275 kW DC Voltage Range 600~900 Vdc Maximum DC Current 625 A Voltage Regulation Accuracy 1% Current Regulation Accuracy 4+1% System Parameters Maximum Conversion Efficiency 97.3% Dimensions (Width * Height * Depth) 1100*2160*800mm Neight 2600 kg Noise 75 dB Protection Level IP20 Allowed Ambient Temperature -20~60°C (Derating above 50°C) Cooling Method Air-cooled Allowable Relative Humidity 0~95% (No condensation) Allowable Altitude 3000m (De-rating above 3000m) Display and Communication Display Touch Screen Communication Interface RS 485, Ethernet,CAN Communication Protocol Modbus TCP/RTU.IEC104	Rated Output Frequency	50/60 (-2.5~2.5 Adjustable) Hz
OC Voltage Range 600~900 Vdc Maximum DC Current 625 A Voltage Regulation Accuracy 176 Current Regulation Accuracy 4+176 System Parameters Maximum Conversion Efficiency 97.3% Dimensions (Width * Height * Depth) 1100*2160*800mm Neight 2600 kg Noise 75 dB Protection Level IP20 Allowed Ambient Temperature -20~60°C (Derating above 50°C) Cooling Method Air-cooled Allowable Relative Humidity 0~95% (No condensation) Allowable Altitude 3000m (De-rating above 3000m) Display and Communication Display Touch Screen Communication Interface RS 485, Ethernet,CAN Communication Protocol Modbus TCP/RTU.IEC104	DC Parameters	
Maximum DC Current Voltage Regulation Accuracy Current Regulation Accuracy System Parameters Maximum Conversion Efficiency Dimensions (Width * Height * Depth) Neight Noise Protection Level Allowed Ambient Temperature Cooling Method Allowable Relative Humidity Allowable Altitude Display and Communication Communication Interface RS 485, Ethernet,CAN Communication Protocol 176 176 176 177 176 177 177 17	Maximum DC Power	275 kW
Voltage Regulation Accuracy Current Regulation Accuracy System Parameters Maximum Conversion Efficiency Dimensions (Width * Height * Depth) Voise Voise Voise Voise Voise Voice Voilong Method Allowable Relative Humidity Allowable Altitude Display and Communication Communication Interface Communication Protocol 176 V+176 V	DC Voltage Range	600~900 Vdc
Current Regulation Accuracy System Parameters Maximum Conversion Efficiency Dimensions (Width * Height * Depth) Neight Noise Protection Level Allowed Ambient Temperature Cooling Method Allowable Relative Humidity Allowable Altitude Display and Communication Display Touch Screen Communication Interface RS 485, Ethernet,CAN Communication Protocol P7.3% 97.3% 1100*2160*800mm 100*2160*800mm 10	Maximum DC Current	625 A
Maximum Conversion Efficiency Maximum Conversion Efficiency Dimensions (Width * Height * Depth) Neight Noise Protection Level Allowed Ambient Temperature Cooling Method Allowable Relative Humidity Allowable Altitude Display and Communication Communication Interface Communication Protocol P7.3% 9	Voltage Regulation Accuracy	1%
Maximum Conversion Efficiency Dimensions (Width * Height * Depth) Neight Noise Protection Level Allowed Ambient Temperature Cooling Method Allowable Relative Humidity Allowable Altitude Display and Communication Communication Interface RS 485, Ethernet, CAN Communication Protocol 1100*2160*800mm 1100*2160*800mm 1100*2160*800mm 1100*2160*800mm 1P20 -20~60°C (Derating above 50°C) Air-cooled Air-cooled Overating above 50°C) Touch Screen RS 485, Ethernet, CAN Modbus TCP/RTU.IEC104	Current Regulation Accuracy	<+1%
Dimensions (Width * Height * Depth) Weight Zeoo kg Noise Protection Level Allowed Ambient Temperature Cooling Method Allowable Relative Humidity Allowable Altitude Display and Communication Display Communication Interface Communication Protocol 1100*2160*800mm 2600 kg 1P20 1P20 -20~60°C (Derating above 50°C) Air-cooled Air-cooled 20~95% (No condensation) 3000m (De-rating above 3000m) Touch Screen RS 485, Ethernet,CAN Modbus TCP/RTU.IEC104	System Parameters	
Weight 2600 kg Noise < 75 dB Protection Level IP20 Allowed Ambient Temperature -20~60°C (Derating above 50°C) Cooling Method Air-cooled Allowable Relative Humidity 0~95% (No condensation) Allowable Altitude 3000m (De-rating above 3000m) Display and Communication Display Touch Screen Communication Interface RS 485, Ethernet, CAN Communication Protocol Modbus TCP/RTU.IEC104	Maximum Conversion Efficiency	97.3%
Noise <75 dB Protection Level IP20 Allowed Ambient Temperature -20~60°C (Derating above 50°C) Cooling Method Air-cooled Allowable Relative Humidity 0~95% (No condensation) Allowable Altitude 3000m (De-rating above 3000m) Display and Communication Display Touch Screen Communication Interface RS 485, Ethernet, CAN Communication Protocol Modbus TCP/RTU.IEC104	Dimensions (Width * Height * Depth)	1100*2160*800mm
Protection Level Allowed Ambient Temperature Cooling Method Allowable Relative Humidity Allowable Altitude Display and Communication Communication Interface Communication Protocol IP20 -20~60°C (Derating above 50°C) Air-cooled O~95% (No condensation) 3000m (De-rating above 3000m) Touch Screen RS 485, Ethernet,CAN Modbus TCP/RTU.IEC104	Weight	2600 kg
Allowed Ambient Temperature -20~60°C (Derating above 50°C) Air-cooled Allowable Relative Humidity 0~95% (No condensation) Allowable Altitude 3000m (De-rating above 3000m) Display and Communication Display Touch Screen Communication Interface RS 485, Ethernet,CAN Communication Protocol Modbus TCP/RTU.IEC104	Noise	<75 dB
Cooling Method Air-cooled Allowable Relative Humidity O~95% (No condensation) Allowable Altitude 3000m (De-rating above 3000m) Display and Communication Display Touch Screen Communication Interface RS 485, Ethernet,CAN Communication Protocol Modbus TCP/RTU.IEC104	Protection Level	IP20
Allowable Relative Humidity O~95% (No condensation) Allowable Altitude 3000m (De-rating above 3000m) Display and Communication Display Touch Screen RS 485, Ethernet,CAN Communication Protocol Modbus TCP/RTU.IEC104	Allowed Ambient Temperature	-20~60°C (Derating above 50°C)
Allowable Altitude 3000m (De-rating above 3000m) Display and Communication Display Touch Screen Communication Interface RS 485, Ethernet, CAN Communication Protocol Modbus TCP/RTU.IEC104	Cooling Method	Air-cooled
Display and Communication Display Touch Screen Communication Interface RS 485, Ethernet, CAN Communication Protocol Modbus TCP/RTU.IEC104	Allowable Relative Humidity	0~95% (No condensation)
Display Touch Screen Communication Interface RS 485, Ethernet,CAN Communication Protocol Modbus TCP/RTU.IEC104	Allowable Altitude	3000m (De-rating above 3000m)
Communication Interface RS 485, Ethernet, CAN Communication Protocol Modbus TCP/RTU.IEC104	Display and Communication	
Communication Protocol Modbus TCP/RTU.IEC104	Display	Touch Screen
incubac for fitterization	Communication Interface	RS 485, Ethernet, CAN
BMS Access Support	Communication Protocol	Modbus TCP/RTU.IEC104
FF	BMS Access	Support

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DCDC Specifications

LV PV input mode	
HV DC bus voltage	LV voltage+40V~850V
HV DC bus current	0~130Ax6
LV PV input voltage	250~800V
LV PV input current	0~130Ax6
Power rating	50kWx6
LV battery dis-/charge mode	
HV DC bus voltage	LV voltage+40V~850V
HV DC bus current	0~130Ax6
LV battery voltage	250~800V
LV battery current	0~130Ax6
Power rating	50kWx6
Physical	
Cooling	Forced air cooling
Noise	<75dB
Enclosure	IP20/NEMA1
Max elevation	3000m/10000feet (> 3000m/10000feet derating)
Operating ambient temperature	-20°C to 50°C (De-rating over 45°C)
Humidity	0~95% (No condensing)
Size (WxHxD)	1100x2160x800mm
Weight	Cabinet 280kg + Module 40kg*n (n=1,2,,8)
Installation	Floor standing
Other	
Efficiency curve	#175 #1.70 #
Peak efficiency	98.60%
Protection	OTP OVP/UVP, EPO, Fan / Relay Failure, OLP
0 6 11	Upper/Lower Voltage, Battery EOD voltage
Configurable protection limits	11 · 3-7 · 1 ·
Configurable protection limits Display	Touch Screen
Display	Touch Screen RS485, CAN, Ethernet Non-isolation

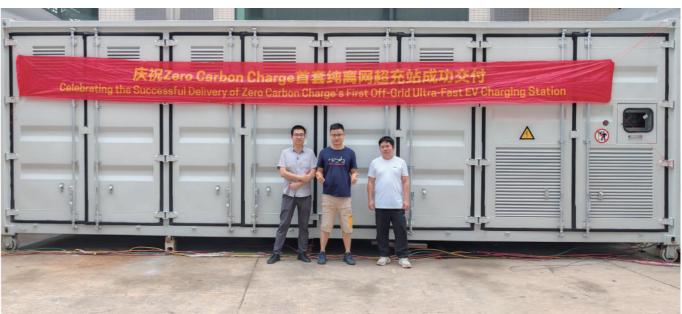
Communication Diagram







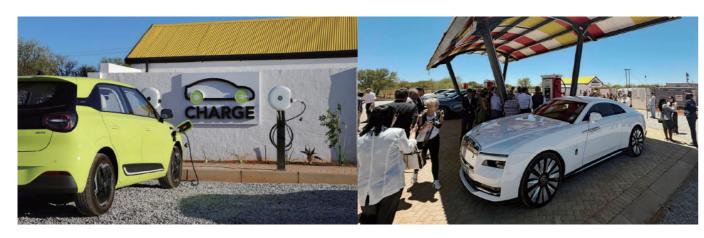




Project Opening









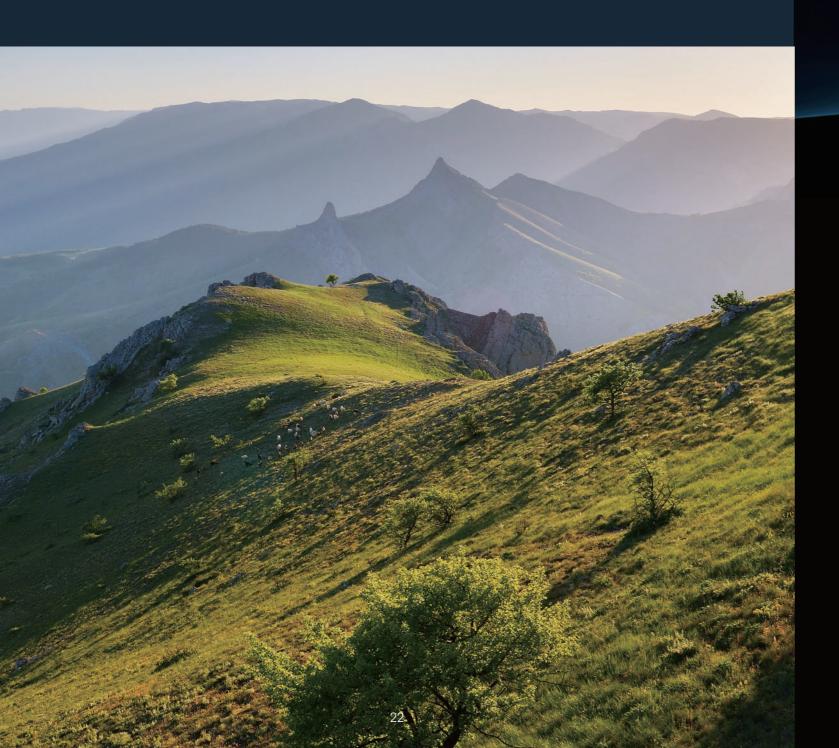




About MagicPower

MagicPower specializes in the research, integration, sales, and service of new energy systems centered around energy storage devices. Our expert team spans fields such as power equipment, power grids, and artificial intelligence, covering the entire ecosystem of the energy storage industry. We are committed to delivering world-leading, one-stop clean energy solutions. Currently, our services extend across Europe, South Africa, Southeast Asia, and other countries and regions.

Our new energy solutions rely on self-developed energy storage equipment and control systems to coordinate wind, solar, and diesel power sources. These solutions cater to various user-side and renewable energy generation scenarios, with capacities ranging from 1 kWh to 2000 kWh. Currently, our clients include overseas solar power plants, photovoltaic installers, small and medium-sized commercial and industrial enterprises, new energy vehicle solar charging stations, residential projects, and individual users.







■ MagicPower's Main Business

Residential Energy Storage Systems

We provide comprehensive whole-house energy management solutions, featuring products like hybrid inverters, stackable battery packs, and all-in-one energy solar energy storage. With energy storage as the core, our solutions adapt to the critical electricity demands of entire households.

C&I Energy Storage Integration and Services

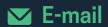
We specializes in integrating energy storage on both the power supply and grid sides, widely applied in scenarios such as new energy grid integration, frequency regulation, and demand-side response.

We offer C&I energy storage solutions, including container energy storage systems and outdoor energy storage systems. Simultaneously integrating solar and storage charging as a unified solution, constructing a reliable energy infrastructure.









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