IN The product data referred to in the company shall be subject to material object. Subject to change without notice. The company has the final right to interpret.

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GEYA

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Create green value
create customer value

GEYA

光储逆控一体机

All in One Solar ESS



ABOUT GEYA
关于格亚

浙江格亚电气有限公司成立于2007年2月，地处浙江温州，是一家专业从事新能源电气与自动化控制产品自主研发、生产、销售及配套服务的高新技术企业。公司具备完整全产业链运营能力，依托规范经营管理与持续技术创新，综合实力稳步提升，年营业额已突破2亿元人民币，综合产能及行业综合实力位居区域行业前列。

公司主营低压电器元件、工业自动化控制元件全系列核心品类，可同步提供低压配电系统、自动化控制系统、新型智能电力系统定制化成套解决方案，可对接各类政企工程、工贸企业、跨境项目，交付一站式全流程配套服务。产品适配多类工业、基建、新能源全域应用场景，性能稳定、合规达标率高，收获海内外客户一致认可与长效好评。公司深耕全球化市场布局，销售网络覆盖全球六大洲，累计服务一万余家海外合作企业，渠道体系成熟完善。现面向全球开放区域代理、批量集采、专项项目共建等多元合作模式，携手共建电气产业共赢生态。

自成立以来，公司秉持“格物知致，亚行天下”企业理念，坚守品质为先、创新赋能核心发展原则，严控产品高标准、高性价比、高品质三道核心关口。目前已斩获多项国家实用发明专利，完成GEYA品牌多国全域合规布局。全系产品严格对标国际行业准入标准，顺利取得CCC、CE、SAA、SEMKO、TUV、EN等国内外权威全套资质认证，全面符合欧洲、中东等多国属地质量核验标准，跨境供货合规无壁垒。公司可正规承接全球客户OEM、ODM定制化代工研发服务，已与多家国际知名电气品牌达成长期稳定战略合作。专业实战型营销服务团队全域联动，稳步拓宽海内外品牌市场版图，持续强化品牌核心竞争力。

格亚电气诚邀海内外优质代理商、渠道商及工程合作伙伴携手拓市，共享行业发展红利。我们将以过硬原装全系产品、高效全天候专属配套服务、极具市场竞争力的合作扶持政策，全方位护航合作伙伴稳定创收、长效经营。

格亚电气匠心做品质、专心做科创、诚心做合作，期待与全球客商同心同行，共创电气行业高质量发展新未来！

Zhejiang GEYA Electrical Co., Ltd. was established in February 2007 and is located in Wenzhou, Zhejiang. It is a high-tech enterprise specializing in independent research and development, production, sales, and supporting services of new energy electrical and automation control products. The company has the ability to operate the entire industry chain, relying on standardized management and continuous technological innovation. Its comprehensive strength has steadily improved, and its annual revenue has exceeded 200 million yuan. Its comprehensive production capacity and industry strength rank among the top in the region and industry.

The company specializes in a full range of core categories including low-voltage electrical components and industrial automation control components. It can provide customized solutions for low-voltage distribution systems, automation control systems, and new intelligent power systems, and can connect with various government and enterprise projects, industrial and trade enterprises, cross-border projects, and deliver one-stop full process supporting services. The product is suitable for various industrial, infrastructure, and new energy application scenarios, with stable performance and high compliance rate, and has received unanimous recognition and long-term praise from customers at home and abroad. The company is deeply rooted in the global market layout, with a sales network covering six continents worldwide, serving more than 10000 overseas cooperative enterprises, and a mature and complete channel system. We are now open to diverse cooperation models such as regional agency, bulk procurement, and joint construction of special projects worldwide, working together to build a win-win ecosystem for the electrical industry.

Since its establishment, the company has adhered to the corporate philosophy of "knowing what to do, and the Asian Development Bank is the world", adhering to the core development principles of quality first and innovation empowerment, and strictly controlling the three core checkpoints of high product standards, high cost-effectiveness, and high quality. At present, we have obtained multiple national practical invention patents and completed the GEYA brand's multi country and comprehensive compliance layout. All products in the series strictly adhere to international industry access standards and have successfully obtained a full set of authoritative qualifications such as CCC, CE, SAA, SEMKO, TUV, EN, etc., fully complying with quality verification standards in multiple countries such as Europe and the Middle East. Cross border supply is compliant without barriers. The company can officially undertake customized OEM and ODM research and development services for global customers, and has established long-term and stable strategic cooperation with multiple internationally renowned electrical brands. Our professional and practical marketing service team collaborates across all domains, steadily expanding our brand market presence both domestically and internationally, and continuously strengthening our brand's core competitiveness.

GEYA Electric cordially invites high-quality agents, distributors, and engineering partners from home and abroad to join hands in expanding the market and sharing the dividends of industry development. We will provide reliable original products, efficient 24/7 exclusive supporting services, and highly competitive cooperation support policies to comprehensively safeguard our partners' stable revenue generation and long-term operation.

GEYA Electric is dedicated to quality, science and technology innovation, and sincere cooperation. We look forward to working together with global customers to create a new future of high-quality development in the electrical industry!



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智能微电网电力
能源系统解决方案

Smart Microgrid Energy System Solution

- 高效空气冷却系统
  Efficient Air-cooling System
- 增强的耐用性和环境抗性
  Enhanced Durability and Environmental Resistance
- 高容量和可靠的电源供应
  High Capacity and Reliable Power supply
- 智能监控和安全功能
  Smart Monitoring and Safety Features

市电Grid

光伏Solar

双输出 Dual output

多输出 Multiple outputs

负载Load

发电机Generator

BMS

10<S

Energy Storage

EMS

SVG

Control

Compensation

Dispatch

NTS

EMI

Voltage Regulation

STS

Power Control

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光储逆控一体机
All in One Solar ESS

家用太阳能储能混合逆变器和控制器将光伏逆变、储能控制和能源管理集成在一个单元中，作为住宅能源系统的核心设备。

The household solar-storage hybrid inverter & controller integrates PV inversion, energy storage control and energy management into one unit, serving as the core equipment for residential energy systems.

Intelligent Efficiency for a Sustainable Future

GEYA

GYS 3.2K-3.8KWH
GYS 5K-5/10KWH

光储逆控一体机

All-in-One Hybrid Inverter



LFP(LiFePO)电芯
LFP(LiFePO)cell

电气隔离
Galvanic isolation

外短路防护
External short-circuit protection

储能可与光伏组件配套使用，利用太阳能为自身充电。当电网发生故障停电时，自动切换为备用电源，利用储存的电力持续为照明系统、电气设备等提供稳定可靠的电力支持，维护成本低，能源消耗少，环境噪音小。

Energy storage can be used in conjunction with PV modules to charge itself using solar energy. When a grid fault or power outage occurs, it automatically switches to backup power, utilizing the stored electricity to continuously provide stable and reliable power support for lighting systems, electrical equipment, etc. It features low maintenance costs, low energy consumption, and low environmental noise.

- 内置MPPT太阳能充电控制器 / Built-in MPPT solar charge controller
- 宽范围PV输入 / Wide PV input range
- 较宽市电输入范围90~280VAC / Wide PV input range
- 市电输出电压220V/230V/240VAC / Grid output voltage: 220V/230V/240VAC
- 具备防尘网应对恶劣环境 / Equipped with dust filter for harsh environments
- 选配WiFi模块-手机APP监控 / Optional WiFi module for mobile APP monitoring
- 支持锂电池BMS通讯 / Supports Li-ion battery BMS communication



产品规格	Product Specifications	GYS 3.2K-3.8KWH	GYS 5K-5KWH	GYS 5K-10KWH
市电输入	Grid Input			
标称电压	Nominal Voltage	220/230/240Vac(L+N+PE)		
市电输入范围	Grid Input Range	170-280VAC (UPS mode) ; 90-280VAC (APL mode)		
频率	Frequency	50Hz/60Hz (Auto detection)		
并网运行	Grid-connected Operation			
输出电压	Output Voltage	220/230/240Vac(L+N+PE)		
电网电压范围	Grid Voltage Range	195-253VAC		
电网频率范围	Grid Frequency Range	49-51±1Hz/59-61±1Hz		
功率因素范围	Power Factor Range	>0.99		
最大转换效率	Max. Conversion Efficiency	98%		
逆变器模式	Inverter Mode			
输出电压	Output Voltage	220/230/240Vac(L+N+PE) ±5%		
额定输出频率	Rated Output Frequency	50/;60Hz±0.2%		
输出波形	Output Waveform	Pure sine wave		
额定输出功率	Rated Output Power	3000W	5000W	5000W
峰值功率	Peak Power	6000VA	10000VA	10000VA
峰值效率(PV to INV)	Peak Efficiency (PV to INV)	98%		
峰值效率(BATT to INV)	Peak Efficiency (BATT to INV)	94%		
过载保护	Overload Protection	110~150%, 11s/≥150%, 2s		
波峰因数	Crest Factor	3:1		
储能电池	Energy Storage Battery			
电池类型	Battery Type	LiFePO4	LiFePO4	LiFePO4
电池容量(Wh)	Battery Capacity (Wh)	3840Wh	5120Wh	10240Wh
电池标称电压	Battery Nominal Voltage	25.6Vdc	51.2Vdc	51.2Vdc
恒定充电电压	Constant Charging Voltage	28.2Vdc	56.4Vdc	56.4Vdc
市电最大充电电流	Grid Max Charging Current	60A	120A	120A
光伏最大充电电流	PV Max Charging Current	100A	150A	150A
充电温度范围	Charging Temperature Range	0~55°C	0~55°C	0~55°C
放电温度范围	Discharging Temperature Range	-20°C to 55°C	-20°C to 55°C	-20°C to 55°C
光伏侧	PV Side			
MPPT数量	Number of MPPTs	1	1	1
MPPT电压输入范围	MPPT Voltage Input Range	60~500Vdc	90~500Vdc	90~500Vdc
PV最大保护电压	PV Max Protection Voltage	500Vdc	500Vdc	500Vdc
PV最大接入功率	PV Max Input Power	5000W	8000W	8000W
PV最大输入电流	PV Max Input Current	18A	25A	25A
一般数据	General Data			
运行温度	Operating Temperature	10°C to 50°C		
相对湿度	Relative Humidity	5% to 95% (Conformal coating protection)		
防护等级	Protection Grade	IP21		
冷却方法	Cooling Method	Forced air cooling,variable speed of fan		
通迅接口	Communication Interface	USB/RS485(Wi-Fi/4G)/Dry contact control		
产品尺寸(mm)	Product Dimensions (mm)	620/300/780	630/300/1160	670/350/1320
包装尺寸(mm)	Packaging Dimensions (mm)	700/380/940	700/380/1320	750/430/1540
重量(kg)	Weight (kg)	70	100	145
选配功能	Optional Functions			
并机	Parallel operation	□YES □NO		
Wi-Fi	Wi-Fi	□YES □NO		
电网防逆流装置	Grid Anti-reverse Current Device CT	□YES □NO		

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GYS 6K-7.68/10/15KWH

光储逆控一体机

All-in-One Hybrid Inverter



LFP(LiFePO)电芯
LFP(LiFePO)cell

电气隔离
Galvanic isolation

外短路防护
External short-circuit protection

储能可与光伏组件配套使用，利用太阳能为自身充电。当电网发生故障停电时，自动切换为备用电源，利用储存的电力持续为照明系统、电气设备等提供稳定可靠的电力支持，维护成本低，能源消耗少，环境噪音小。

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- 内置MPPT太阳能充电控制器 / Built-in MPPT solar charge controller
- 宽范围PV输入 / Wide PV input range
- 较宽市电输入范围90~280VAC / Wide PV input range
- 市电输出电压220V/230V/240VAC / Grid output voltage: 220V/230V/240VAC
- 具备防尘网应对恶劣环境 / Equipped with dust filter for harsh environments
- 选配WiFi模块-手机APP监控 / Optional WiFi module for mobile APP monitoring
- 支持锂电池BMS通讯 / Supports Li-ion battery BMS communication



产品规格	Product Specifications	GYS 6K-7.68KWH	GYS 6K-10KWH	GYS 6K-15KWH
市电输入	Grid Input			
标称电压	Nominal Voltage	220/230/240Vac(L+N+PE)		
市电输入范围	Grid Input Range	170-280VAC (UPS mode) ; 90-280VAC (APL mode)		
频率	Frequency	50Hz/60Hz (Auto detection)		
并网运行	Grid-connected Operation			
输出电压	Output Voltage	220/230/240Vac(L+N+PE)		
电网电压范围	Grid Voltage Range	195-253VAC		
电网频率范围	Grid Frequency Range	49-51±1Hz/59-61±1Hz		
功率因素范围	Power Factor Range	>0.99		
最大转换效率	Max. Conversion Efficiency	98%		
逆变器模式	Inverter Mode			
输出电压	Output Voltage	220/230/240Vac(L+N+PE) ±5%		
额定输出频率	Rated Output Frequency	50/;60Hz±0.2%		
输出波形	Output Waveform	Pure sine wave		
额定输出功率	Rated Output Power	6200W		
峰值功率	Peak Power	12400VA		
峰值效率(PV to INV)	Peak Efficiency (PV to INV)	98%		
峰值效率(BATT to INV)	Peak Efficiency (BATT to INV)	94%		
过载保护	Overload Protection	110~150%, 11s/≥150%, 2s		
波峰因数	Crest Factor	3:1		
储能电池	Energy Storage Battery			
电池类型	Battery Type	LiFePO4		
电池容量(Wh)	Battery Capacity (Wh)	7680Wh	10240Wh	15360Wh
电池标称电压	Battery Nominal Voltage	51.2Vdc		
恒定充电电压	Constant Charging Voltage	56.4Vdc		
市电最大充电电流	Grid Max Charging Current	120A		
光伏最大充电电流	PV Max Charging Current	150A		
充电温度范围	Charging Temperature Range	0~55°C		
放电温度范围	Discharging Temperature Range	-20°C to 55°C		
光伏侧	PV Side			
MPPT数量	Number of MPPTs	1		
MPPT电压输入范围	MPPT Voltage Input Range	90~500Vdc		
PV最大保护电压	PV Max Protection Voltage	500Vdc		
PV最大接入功率	PV Max Input Power	8000W		
PV最大输入电流	PV Max Input Current	27A		
一般数据	General Data			
运行温度	Operating Temperature	-10°C to 50°C		
相对湿度	Relative Humidity	5% to 95% (Conformal coating protection)		
防护等级	Protection Grade	IP21		
冷却方法	Cooling Method	Forced air cooling,variable speed of fan		
通迅接口	Communication Interface	USB/RS485(Wi-Fi/4G)/Dry contact control		
产品尺寸(mm)	Product Dimensions (mm)	630/300/1160	670/350/1320	670/450/1320
包装尺寸(mm)	Packaging Dimensions (mm)	700/380/1320	750/430/1540	750/530/1540
重量(kg)	Weight (kg)	120	150	185
选配功能	Optional Functions			
并机	Parallel operation	□YES □NO		
Wi-Fi	Wi-Fi	□YES □NO		
电网防逆流装置	Grid Anti-reverse Current Device CT	□YES □NO		

GEYA

GYS 10K-10/15KWH

光储逆控一体机

All-in-One Hybrid Inverter



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LFP(LiFePO)cell

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- 较宽市电输入范围90~280VAC / Wide PV input range
- 市电输出电压220V/230V/240VAC / Grid output voltage: 220V/230V/240VAC
- 具备防尘网应对恶劣环境 / Equipped with dust filter for harsh environments
- 选配WiFi模块-手机APP监控 / Optional WiFi module for mobile APP monitoring
- 支持锂电池BMS通讯 / Supports Li-ion battery BMS communication



产品规格	Product Specifications	GYS 10K-10KWH	GYS 10K-15KWH
市电输入	Grid Input		
标称电压	Nominal Voltage	220/230/240Vac(L+N+PE)	
市电输入范围	Grid Input Range	170-280VAC (UPS mode) ; 90-280VAC (APL mode)	
频率	Frequency	50Hz/60Hz (Auto detection)	
并网运行	Grid-connected Operation		
输出电压	Output Voltage	220/230/240Vac(L+N+PE)	
电网电压范围	Grid Voltage Range	195-253VAC	
电网频率范围	Grid Frequency Range	49-51±1Hz/59-61±1Hz	
功率因素范围	Power Factor Range	>0.99	
最大转换效率	Max. Conversion Efficiency	98%	
逆变器模式	Inverter Mode		
输出电压	Output Voltage	220/230/240Vac(L+N+PE) ±5%	
额定输出频率	Rated Output Frequency	50/;60Hz±0.2%	
输出波形	Output Waveform	Pure sine wave	
额定输出功率	Rated Output Power	10000W	
峰值功率	Peak Power	20000VA	
峰值效率(PV to INV)	Peak Efficiency (PV to INV)	98%	
峰值效率(BATT to INV)	Peak Efficiency (BATT to INV)	94%	
过载保护	Overload Protection	110~150%, 11s/≥150%, 2s	
波峰因数	Crest Factor	3:1	
储能电池	Energy Storage Battery		
电池类型	Battery Type	LiFePO4	
电池容量(Wh)	Battery Capacity (Wh)	10240Wh	15360Wh
电池标称电压	Battery Nominal Voltage	51.2Vdc	
恒定充电电压	Constant Charging Voltage	56.4Vdc	
市电最大充电电流	Grid Max Charging Current	150A	
光伏最大充电电流	PV Max Charging Current	150A	
充电温度范围	Charging Temperature Range	0~55°C	
放电温度范围	Discharging Temperature Range	-20°C to 55°C	
光伏侧	PV Side		
MPPT数量	Number of MPPTs	2	
MPPT电压输入范围	MPPT Voltage Input Range	90~500Vdc	
PV最大保护电压	PV Max Protection Voltage	500Vdc	
PV最大接入功率	PV Max Input Power	7500W*2	
PV最大输入电流	PV Max Input Current	27A*2	
一般数据	General Data		
运行温度	Operating Temperature	-10°C to 50°C	
相对湿度	Relative Humidity	5% to 95% (Conformal coating protection)	
防护等级	Protection Grade	IP21	
冷却方法	Cooling Method	Forced air cooling, variable speed of fan	
通迅接口	Communication Interface	USB/RS485(Wi-Fi/4G)/Dry contact control	
产品尺寸(mm)	Product Dimensions (mm)	670/350/1320	670/450/1320
包装尺寸(mm)	Packaging Dimensions (mm)	750/430/1540	750/530/1540
重量(kg)	Weight (kg)	154	190
选配功能	Optional Functions		
并机	Parallel operation	□YES □NO	
Wi-Fi	Wi-Fi	□YES □NO	
电网防逆流装置	Grid Anti-reverse Current Device CT	□YES □NO	

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GYS 12K-15/30KWH

光储逆控一体机

All-in-One Hybrid Inverter

LFP(LiFePO)电芯
LFP(LiFePO)cell

电气隔离
Galvanic isolation

外短路防护
External short-circuit protection

储能可与光伏组件配套使用，利用太阳能为自身充电。当电网发生故障停电时，自动切换为备用电源，利用储存的电力持续为照明系统、电气设备等提供稳定可靠的电力支持，维护成本低，能源消耗少，环境噪音小。

Energy storage can be used in conjunction with PV modules to charge itself using solar energy. When a grid fault or power outage occurs, it automatically switches to backup power, utilizing the stored electricity to continuously provide stable and reliable power support for lighting systems, electrical equipment, etc. It features low maintenance costs, low energy consumption, and low environmental noise.

- 内置MPPT太阳能充电控制器 / Built-in MPPT solar charge controller
- 宽范围PV输入 / Wide PV input range
- 较宽市电输入范围90~280VAC / Wide PV input range
- 市电输出电压220V/230V/240VAC / Grid output voltage: 220V/230V/240VAC
- 具备防尘网应对恶劣环境 / Equipped with dust filter for harsh environments
- 选配WiFi模块-手机APP监控 / Optional WiFi module for mobile APP monitoring
- 支持锂电池BMS通讯 / Supports Li-ion battery BMS communication



产品规格	Product Specifications	GYS 12K-15KWH	GYS 12K-30KWH
市电输入	Grid Input		
标称电压	Nominal Voltage	220/230/240Vac(L+N+PE)	
市电输入范围	Grid Input Range	170-280VAC (UPS mode) ; 90-280VAC (APL mode)	
频率	Frequency	50Hz/60Hz (Auto detection)	
并网运行	Grid-connected Operation		
输出电压	Output Voltage	220/230/240Vac(L+N+PE)	
电网电压范围	Grid Voltage Range	195-253VAC	
电网频率范围	Grid Frequency Range	49-51±1Hz/59-61±1Hz	
功率因素范围	Power Factor Range	>0.99	
最大转换效率	Max. Conversion Efficiency	98%	
逆变器模式	Inverter Mode		
输出电压	Output Voltage	220/230/240Vac(L+N+PE) ±5%	
额定输出频率	Rated Output Frequency	50/;60Hz±0.2%	
输出波形	Output Waveform	Pure sine wave	
额定输出功率	Rated Output Power	12000W	
峰值功率	Peak Power	24000VA	
峰值效率(PV to INV)	Peak Efficiency (PV to INV)	98%	
峰值效率(BATT to INV)	Peak Efficiency (BATT to INV)	94%	
过载保护	Overload Protection	110~150%, 11s/≥150%, 2s	
波峰因数	Crest Factor	3:1	
储能电池	Energy Storage Battery		
电池类型	Battery Type	LiFePO4	
电池容量(Wh)	Battery Capacity (Wh)	15360Wh	15360Wh*2
电池标称电压	Battery Nominal Voltage	51.2Vdc	
恒定充电电压	Constant Charging Voltage	56.4Vdc	
市电最大充电电流	Grid Max Charging Current	150A	
光伏最大充电电流	PV Max Charging Current	150A	
充电温度范围	Charging Temperature Range	0~55°C	
放电温度范围	Discharging Temperature Range	-20°C to 55°C	
光伏侧	PV Side		
MPPT数量	Number of MPPTs	2	
MPPT电压输入范围	MPPT Voltage Input Range	90~500Vdc	
PV最大保护电压	PV Max Protection Voltage	500Vdc	
PV最大接入功率	PV Max Input Power	8000W*2	
PV最大输入电流	PV Max Input Current	27A*2	
一般数据	General Data		
运行温度	Operating Temperature	-10°C to 50°C	
相对湿度	Relative Humidity	5% to 95% (Conformal coating protection)	
防护等级	Protection Grade	IP21	
冷却方法	Cooling Method	Forced air cooling, variable speed of fan	
通迅接口	Communication Interface	USB/RS485(Wi-Fi/4G)/Dry contact control	
产品尺寸(mm)	Product Dimensions (mm)	670/450/1320	600/850/1450
包装尺寸(mm)	Packaging Dimensions (mm)	750/530/1540	650/900/1750
重量(kg)	Weight (kg)	200	430
选配功能	Optional Functions		
并机	Parallel operation	□YES □NO	
Wi-Fi	Wi-Fi	□YES □NO	
电网防逆流装置	Grid Anti-reverse Current Device CT	□YES □NO	

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GYS 3312K-15/30KWH

三相光储
逆控一体机

Three-phase all-in-one PV-storage inverter/controller



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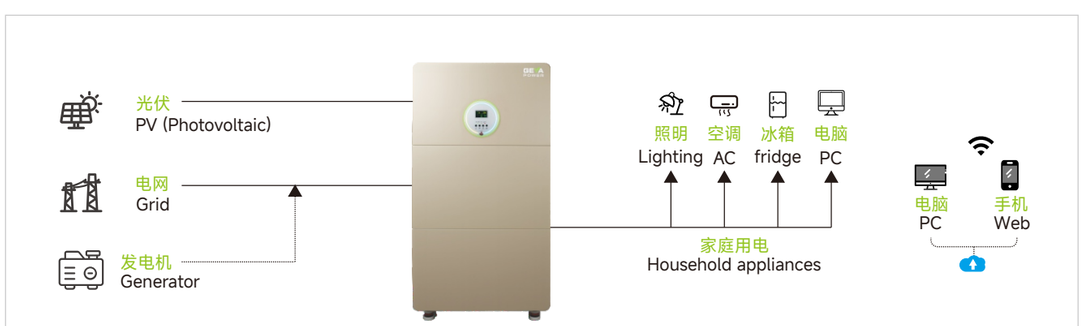
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- 较宽光伏范围 / Wide photovoltaic (PV) input range
- 带CT防夹回流 / CT-based anti-backflow protection
- 较宽市电输入范围 / Wide grid (AC) input range
- USB/RS485/干式控制通信 / USB / RS485 / dry contact communication
- 支持WiFi+APP监控 / Supports WiFi + APP monitoring
- 支持锂电池BMS通讯支持并联 / Supports lithium battery BMS communication and parallel connection



产品规格	Product Specifications	GYS 3312K-15KWH	GYS 3312K-30KWH
输出并网	Grid-tied		
峰值功率	Peak power	13200VA	
额定输出电压	Rated output voltage	380/400	
额定输出频率	Rated output frequency	V50/60Hz	
最大输出电流	Maximum output current	20A	
功率因数	Power factor	1(0.8 leading-0.8lagging)	
输出离网	Off-grid		
额定输出功率	Rated output power	12000W	
过载保护(W)	Overload protection (W)	>200%,15sec	
额定输出电压	Rated output voltage	380/400V	
额定输出频率	Rated output frequency	50/60Hz	
额定输出电流	Rated output current	20A	
储能电池	Energy storage battery		
电池类型	Battery type	LIFePO4	
电池标称电压	Battery nominal voltage	51.2Vdc	
电池容量	Battery capacity	15360Wh	15360Wh*2
最大充/放电电流	Max charge/discharge current	250A	
最大充/放电功率	Max charge/discharge power	12000W	
充电温度	Charging temperature	0~55°C	
放电温度	Discharging temperature	-20°C to 55°C	
光伏侧	PV side		
最大光伏输入功率	Maximum PV input power	24KW	
最大光伏输入电压	Maximum PV input voltage	1000V	
MPPT电压输入范围	MPPT voltage input range	200-800V	
启动电压	Startup voltage	150V	
最大输入电流	Maximum input current	36A/18A	
MPPT数量	Number of MPPT	2	
效率	Efficiency		
光伏最大效率	Maximum PV efficiency	98%	
电池最大效率	Maximum battery efficiency	94.5%	
保护功能	Protection functions		
光伏反极性保护	PV reverse polarity protection	有 YES	
光伏绝缘电阻检测	PV insulation resistance detection	有 YES	
剩余电流检测输	Residual current detection	有 YES	
出过流保护	Output overcurrent protection	有 YES	
输出短路保护	Output short circuit protection	有 YES	
输出过压保护	Output overvoltage protection	有 YES	
一般数据	General data		
运行温度	Operating temperature	-25~60°C(derating above 45°C)	
相对湿度	Relative humidity	0~95%	
工作高度	Operating altitude	≤4000m(derating above 2000m)	
冷却方式	Cooling method	Intelligent Forced Air Cooling	
噪声	Noise	<55dB	
防护等级	Protection rating	IP21	
选配功能	Optional functions		
并机	Parallel operation	□YES □NO	
Wi-Fi	Wi-Fi	□YES □NO	
电网防逆流装置CT	Grid anti-reverse current device CT	□YES □NO	

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GYS 3315K-15/30/45KWH

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Three-phase all-in-one PV-storage inverter/controller



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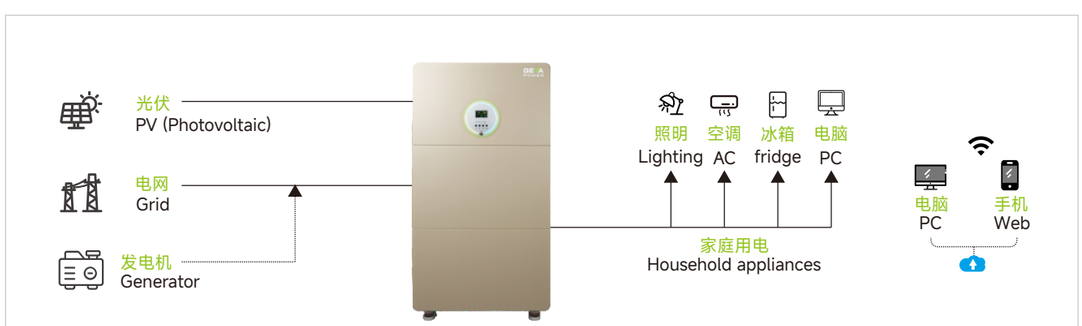
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- 较宽光伏范围 / Wide photovoltaic (PV) input range
- 带CT防夹回流 / CT-based anti-backflow protection
- 较宽市电输入范围 / Wide grid (AC) input range
- USB/RS485/干式控制通信 / USB / RS485 / dry contact communication
- 支持WiFi+APP监控 / Supports WiFi + APP monitoring
- 支持锂电池BMS通讯支持并联 / Supports lithium battery BMS communication and parallel connection



产品规格	Product Specifications	GYS 3315K-15KWH	GYS 3315K-30KWH	GYS 3315K-45KWH
输出并网	Grid-tied			
峰值功率	Peak power	16500VA		
额定输出电压	Rated output voltage	380/400		
额定输出频率	Rated output frequency	V50/60Hz		
最大输出电流	Maximum output current	25A		
功率因数	Power factor	1(0.8 leading-0.8lagging)		
输出离网	Off-grid			
额定输出功率	Rated output power	15000W		
过载保护(W)	Overload protection (W)	>200%,15sec		
额定输出电压	Rated output voltage	380/400V		
额定输出频率	Rated output frequency	50/60Hz		
额定输出电流	Rated output current	24A		
储能电池	Energy storage battery			
电池类型	Battery type	LIFePO4		
电池标称电压	Battery nominal voltage	51.2Vdc		
电池容量	Battery capacity	15360Wh	15360Wh*2	15360Wh*3
最大充/放电电流	Max charge/discharge current	300A		
最大充/放电功率	Max charge/discharge power	15000W		
充电温度	Charging temperature	0~55°C		
放电温度	Discharging temperature	-20°C to 55°C		
光伏侧	PV side			
最大光伏输入功率	Maximum PV input power	30KW		
最大光伏输入电压	Maximum PV input voltage	1000V		
MPPT电压输入范围	MPPT voltage input range	200-800V		
启动电压	Startup voltage	150V		
最大输入电流	Maximum input current	36A/18A		
MPPT数量	Number of MPPT	2		
效率	Efficiency			
光伏最大效率	Maximum PV efficiency	98%		
电池最大效率	Maximum battery efficiency	94.5%		
保护功能	Protection functions			
光伏反极性保护	PV reverse polarity protection	有 YES		
光伏绝缘电阻检测	PV insulation resistance detection	有 YES		
剩余电流检测输	Residual current detection	有 YES		
出过流保护	Output overcurrent protection	有 YES		
输出短路保护	Output short circuit protection	有 YES		
输出过压保护	Output overvoltage protection	有 YES		
一般数据	General data			
运行温度	Operating temperature	-25~60°C(derating above 45°C)		
相对湿度	Relative humidity	0~95%		
工作高度	Operating altitude	≤4000m(derating above 2000m)		
冷却方式	Cooling method	Intelligent Forced Air Cooling		
噪声	Noise	<55dB		
防护等级	Protection rating	IP21		
选配功能	Optional functions			
并机	Parallel operation	口YES 口NO		
Wi-Fi	Wi-Fi	口YES 口NO		
电网防逆流装置CT	Grid anti-reverse current device CT	口YES 口NO		



GYS 250H

微电网逆控一体机

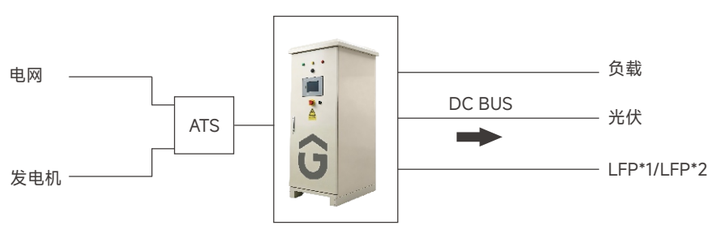
Microgrid all-in-one inverter/controller

内部集成PCS、MPPT、EMS、PCM并离网切换开关、交直流配电单元。支持柴发、光伏、电池接入。高防护IP54等级适应多种应用场景，主要应用于光储柴微电网、柴储备用矿电源等，支持多台并机。应用场景：光储备微电网、储备电源、应急电源、柴储、施工工地、油田开采、野外施工等。

Internally integrated PCS, MPPT, EMS, PCM, on/off-grid transfer switch, and AC/DC distribution unit. Supports diesel generator, PV, and battery connection. High protection rating of IP54, adaptable to a variety of application scenarios — mainly used in solar-diesel-storage microgrids, diesel-storage backup power for mining, etc. Supports parallel operation of multiple units.Application scenarios: solar-storage microgrids, backup power, emergency power, diesel-storage systems, construction sites, oilfield extraction, remote field operations, etc.

- 并离网快速切换10ms
- 多路直流耦合，充电效率大于99.3%
- 油机混动，构网运行
- 高防护等级（IP54）
- 内置防逆流、自发自用、前峰填谷
- 支持多机并联
- ALL IN ONE设计，快速部署、现场调试简单，即插即用
- 集成EMS管理系统，多种能源智能调配

- On/Off-Grid Fast Switching – 10ms
- Multi-channel DC Coupling – Charging efficiency > 99.3%
- Generator Hybrid Operation – Grid-forming operation
- High Protection Rating – IP54
- Built-in Anti-Reverse Power, Self-Consumption, and Peak Shaving & Valley Filling
- Supports Parallel Operation of Multiple Units
- All-in-One Design – Quick deployment, simple on-site commissioning, plug-and-play
- Integrated EMS Management System – Intelligent dispatch of multiple energy sources



产品规格	Product Specifications	GYS 250H
交流侧(并网)	AC side (grid-tied)	
额定功率	Rated power:	250kW
额定输出电流	Rated output current	362A
额定输出电压	Rated output voltage	400V/230V(3P4L)
电压范围	Voltage range	-20%~15%
频率范围	Frequency range:	50Hz(47Hz~52Hz)/60Hz(57Hz~62Hz)
并网不平衡度	Grid-connected unbalance factor	125%
电流谐波	Current harmonics	<3%
功率因数	Power factor	-1~1
交流侧(离网)	AC side (off-grid)	
最大输出功率	Maximum output power	275kW
最大输出电流	Maximum output current	398A
额定输出电压	Rated output voltage	400V/230V
输出频率	Output frequency	50/60Hz
不平衡度	Unbalance factor	100%
输出电压谐波	Output voltage harmonics	<3%(resistive load)
过载保护	Overload protection:	110%, Normal/125%, 60s
电池侧	Battery side	
电池电压范围	Battery voltage range	680~900Vdc
最高电池电压	Maximum battery voltage	950Vdc
最低电池电压	Minimum battery voltage	680Vdc
最大电池电流	Maximum battery current	400A
光伏侧	PV side	
最大光伏容量	Maximum PV capacity	120KW*2
MPPT输入电压范围	MPPT input voltage range	600~900V
最低PV电压	Minimum PV voltage	950V
最高PV电压	Maximum PV voltage	200V
最大输入电流	Maximum input current	200A*2
MPPT输入开关	MPPT input switch	2
系统参数	System parameters	
并离网切换时间	Grid-tied / off-grid transfer time	Active:0ms/Passive:<10ms
旁路能力	Bypass capability	500A
最大并机数量	Maximum number of parallel units	3Pcs
EMS系统	EMS system	SOC均衡、削峰填谷、自发自用、余电上网、云平台、防逆流、油电混动 SOC balancing/peak shift/self-use/export excess/cloud/no export/hybrid
工作温度	Operating temperature	-25~60°C(derating above 45°C)
相对湿度	Relative humidity:	0~95%无冷凝 no cond
海拔高度	Altitude (m)	≤4000m(derating above 2000m)
冷却方式	Cooling method	Intelligent Forced Air Cooling
防护等级	Protection rating	IP54
产品尺寸(mm)	Product dimensions (mm)	1000*973*1800
重量(kg)	Weight (kg)	550

GEYA

GYS 100/150HS

微电网
逆控一体机

Microgrid all-in-one
inverter/controller



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- 集成光伏 / MPPT模块 / 变压器 / STS和维护旁路
- 支持100%不平衡带载
- 支持多机并联
- 全球首发MPPT自适应升降压技术, 可灵活配置光伏容量
- 支持柴发负载率控制, 提高燃油经济性
- 支持灵活配置控制策略
- 油机混动，构网运行
- ALL IN ONE设计，快速部署、现场调试简单，即插即用
- 集成EMS管理系统，多种能源智能调配

- Integrated PV / MPPT module / Transformer / STS (Static Transfer Switch) and maintenance bypass
- Supports 100% unbalanced load
- Supports parallel operation of multiple units
- World's first MPPT adaptive buck-boost technology – flexible configuration of PV capacity
- Supports diesel generator load rate control – improves fuel economy
- Supports flexible configuration of control strategies
- Generator hybrid operation – grid-forming operation
- All-in-one design – quick deployment, simple on-site commissioning, plug-and-play
- Integrated EMS management system – intelligent dispatch of multiple energy sources

产品规格	Product Specifications	GYS 100HS	GYS 150HS
交流(并网)	AC (grid-tied)		
最大输出功率(kW)	Max output power (kW)	110	165
额定输出功率(kW)	Rated output power (kW)	110	150
额定电网电压(V)	Rated grid voltage (V)	400	400
电网电压范围(V)	Grid voltage range (V)	320~460	320~460
额定输出电流(A)	Rated output current (A)	144	216
额定电网频率(Hz)	Rated grid frequency (Hz)	50/60	
电网频率范围(Hz)	Grid frequency range (Hz)	45~55/55~65	
THDI	THDI	<3%	
功率因数	Power factor	1超前-1滞后(可设置) 1 lead ~ 1 lag (adj.)	
电网类型	Grid type	3W+N+PE	
交流(离网)	AC (off-grid)		
最大输出功率(kW)	Max output power (kW)	110	165
额定输出功率(kW)	Rated output power (kW)	100	150
额定输出电压(V)400	Rated output voltage (V) 400	400	
额定输出电流(A)	Rated output current (A)	144	216
THDu	THDu	<1%线性 linear;或<5%非线性 non-linear	
额定输出频率(Hz)	Rated output frequency (Hz)	50/60	
过载能力	Overload capability	110%长期 continuous,120%1 min	
光伏输入	PV input		
最大光伏输入电压(V)	Max PV input voltage (V)	1000	1000
最大光伏功率(kW)	Max PV power (kW)	165/247.5	165/247.5/330
MPPT模块数量	Number of MPPT modules	2/3	2/3/4
MPPT电压范围(V)	MPPT voltage range (V)	250-1000	250-1000
电池	Battery		
电池电压范围(V)	Battery voltage range (V)	420~950	420~950
最大充电功率(kW)	Max charge power (kW)	110	165
常规参数	General parameters		
尺寸W*D*H (mm)	Dimensions W×D×H (mm)	1200*800*2050	
重量(kg)	Weight (kg)	1120/1150	1250/1280/1310
工作温度范围(°C)	Operating temp. range (°C)	0~ +45	
相对湿度	Relative humidity (no cond)	0-95%无冷凝 no cond	
防护等级	Protection rating	Ip210	
噪音(dB)	Noise (dB)	<70	
工作海拔高度(m)	Operating altitude (m)	>3000功率降额 Derating	
冷却方式	Cooling method	强制风冷 Forced air	
显示和通讯	Display & communication		
显示屏:	Display:	液晶触摸屏 LCD	
BMS通讯	BMS communication	RS485,CAN	
EMS通讯	EMS communication	RS485,TCP/IP	

GEYA

GYS 100HS-215KWH

微电网光储逆控一体机

Microgrid all-in-one inverter/controller



- 支持光伏容量灵活扩展
- 集成EMS功能, 安全稳定
- 支持同时接入负载、电池、电网、柴发和光伏
- 支持电池容量和放电时间预测
- 内置隔离变压器, 负载适应性强
- 应用场景：光储备微电网、储备电源、应急电源、柴储、施工工地、油田开采、野外施工等。

- Supports flexible expansion of PV capacity
- Integrated EMS function – safe and stable
- Supports simultaneous connection of load, battery, grid, diesel generator, and PV
- Supports battery capacity and discharge time prediction
- Built-in isolation transformer – strong load adaptability
- Application scenarios: solar-storage microgrids, backup power, emergency power, diesel-storage systems, construction sites, oilfield extraction, remote field operations, etc.

产品规格	Product Specifications	GYS 100HS-215KWH
交流参数	AC parameters	
额定功率（kW）	Rated power (kW)	100
额定电压（V）	Rated voltage (V)	400
额定电流（A）	Rated current (A)	144
电压范围（V）	Voltage range (V)	320-460
额定频率（Hz）	Rated frequency (Hz)	50/60
频率范围（Hz）	Frequency range (Hz)	45-55/55-65
THDI（并网）	THDI (grid-tied)	<3%
THDu（离网）	THDu (off-grid)	≤1%线性；≤5%非线性
功率因数	Power factor	1超前～1滞后（可设置）
过载能力	Overload capability	110%长期
电网类型	Grid type	3W+N+PE
隔离变压器	Isolation transformer	具备
并离网切换	Grid-tied / off-grid transfer	支持
光伏参数	PV parameters	
最大光伏输入电压（V）	Max PV input voltage (V)	1,000
最大光伏功率（kW）	Max PV power (kW)	165/247.5
MPPT工作电压范围（V）	MPPT operating voltage range (V)	250~1,000
降压-升压模式	Buck-boost mode	自适应
电池参数	Battery parameters	
电池类型	Battery type	3.2V/280Ah/LFP
额定电压（V）	Rated voltage (V)	768V, 1P240S
额定能量（kWh）	Rated energy (kWh)	215.04
工作电压范围（V）	Operating voltage range (V)	672~852
最大充放电倍率	Max charge/discharge rate	0.5P@25°C
常规参数	General parameters	
尺寸 W*D*H(mm)	Dimensions W×D×H (mm)	2,460x1,560x2,425
重量（kg）	Weight (kg)	3,900
工作温度范围（°C）	Operating temp. range (°C)	0~+45
相对湿度	Relative humidity (no cond)	0-85%（无冷凝）
防护等级	Protection rating	IP54
噪音（dB）	Noise (dB)	<75
最高工作海拔（m）	Max operating altitude (m)	2,000(>2,000功率降额)
冷却方式	Cooling method	丁温控智能风冷
灭火系统	Fire suppression system	气湿胶／全氟己酮（可选）
显示屏	Display	触摸式液晶显示屏 + 云平台
EMS通信	EMS communication	RS485, TCP/IP

GEYA

GYS 5KWH-D

户用低压储能电池

Microgrid all-in-one inverter/controller



- 支持最多15台并机运行，满足大规模储能需求。
- 灵活扩展，便于安装、维护和升级。
- 多重保护机制，确保系统稳定可靠。
- 优化充放电策略，提高系统效率，降低损耗。
- 系统设计简洁直观，无需远程监控，即可轻松管理和维护。

- Supports parallel operation of up to 15 units to meet large-scale energy storage needs.
- Flexible expansion – easy to install, maintain, and upgrade.
- Multiple protection mechanisms ensure system stability and reliability.
- Optimized charge/discharge strategy – improves system efficiency and reduces losses.
- Simple and intuitive system design – easy management and maintenance without remote monitoring.

产品规格	Product Specifications	GYS 5KWH-D
电池参数	Battery Parameters	
电芯	Cell	LIFEPO4
电池能量	Battery Energy	5120WH
标准容量	Nominal Capacity	100AH
放电深度	Depth of Discharge (DoD)	80.%
额定电压	Nominal Voltage	51.2V
电压范围	Voltage Range	44.8VDC-57.6VDC
额定充电／放电电流	Rated Charge / Discharge Current	50A
最大充电／放电电流	Max Charge / Discharge Current	100A
尺寸	Dimensions	480*465*152MM
重量	Weight	48KG
安装	Mounting / Installation	WALL-MOUNTED/FLOOR-STANDING
充电温度	Charging Temperature	0~55°C
放电温度	Discharging Temperature	-20°C~+60°C
保护等级	Protection Class	IP22
并联数量	Number of Parallel Cells	UP TO 16
通讯接口	Communication Interface	RS485,CAN
环境湿度	Ambient Humidity	5%~95%
操作高度	Operating Altitude	2000M
充电循环寿命	Charge Cycle Life	6000@80%DOD,25°C,0.5C
认证	Certifications	IEC,UN38.3,MSDS

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GYS 5KWH-L | GYS 10KWH-L
GYS 15KWH-L

户用低压储能电池

Microgrid all-in-one inverter/controller



- 壁挂式设计使电池紧贴墙面安装，节省地面空间适合小型住宅和城市公寓。
- 支持最多15台并联运行，可根据需求灵活增加系统容量，满足不同规模的储能需求。
- 内置多重保护机制，包括过热、过充和短路保护确保系统运行稳定，延长电池寿命。
- 采用低压输出设计，提升能量转换效率，降低系统损耗，提高整体性能。
- 壁挂式设计使得储能电池安装简便，不占用地面空间，适用于各种家庭环境。

- The wall-mounted design allows the battery to be installed flush against the wall, saving floor space and making it suitable for small homes and urban apartments.
- Supports parallel operation of up to 15 units, enabling flexible system capacity expansion according to needs to meet energy storage requirements of various scales.
- Built-in multiple protection mechanisms, including over-temperature, over-charge, and short-circuit protection, ensuring stable system operation and extending battery life.
- Adopts a low-voltage output design, improving energy conversion efficiency, reducing system losses, and enhancing overall performance.
- The wall-mounted design makes the energy storage battery easy to install, takes up no floor space, and is suitable for a variety of home environments.

产品规格	Product Specifications	GYS 5KWH-L	GYS 10KWH-L	GYS 15KWH-L
电池参数	Battery Parameters			
电芯	Cell	LIFEPO4	LIFEPO4	LIFEPO4
电池能量	Battery Energy	5120WH	10240WH	**15360WH**
标准容量	Nominal Capacity	100AH	200AH	**300AH**
放电深度	Depth of Discharge (DoD)	80.%		
额定电压	Nominal Voltage	51.2V		
电压范围	Voltage Range	44.8VDC-57.6VDC		
额定充电／放电电流	Rated Charge / Discharge Current	50A	100A	100A
最大充电／放电电流	Max Charge / Discharge Current	100A	150A	200A
尺寸	Dimensions	480*465*152MM	450*246.5*700MM	450*246*844MM
重量	Weight	48KG	92KG	**123KG**
安装	Mounting / Installation	WALL-MOUNTED/FLOOR-STAWDING		
充电温度	Charging Temperature	0~55°C		
放电温度	Discharging Temperature	-20°C~60°C		
保护等级	Protection Class	IP54		
并联数量	Number of Parallel Cells	UP TO 15		
通讯接口	Communication Interface	RS485,CAN		
环境湿度	Ambient Humidity	5%~95%		
操作高度	Operating Altitude	2000M		
充电循环寿命	Charge Cycle Life	6000@80%/DOD,25°C,0.5C		
认证	Certifications	IEC,UN38.3,MSDS		

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房车储能锂电池

RV energy storage lithium battery



痛点

1.用电续航焦虑：夏日不敢畅享空调，冬日无法温暖过夜?
2.冬季无法使用 无法随时随地畅快用电?
3.安全隐忧：电池事故让您提心吊胆?
4.维护困难，故障无预警：无法掌握电池情况，心存疑虑?

1.Power anxiety – Too afraid to run A/C in summer, can't stay warm at night in winter?
2.Winter unusability – Can't enjoy electricity freely whenever and wherever you need it?
3.Safety worries – Are battery accidents constantly on your mind?
4.Maintenance headaches & no alerts – No visibility into battery health, leaving you uneasy?

舒心

1.超大容量&稳定放电 ： 告别电量焦虑，电器随心用
2.低温加热技术(选配) ： 扩展了房车的旅行季节和地域
3.全方位安全防护 ： 使用全新A级磷酸铁锂，激光焊接工艺， 内置智能BMS，守护安全
4.4G远程，蓝牙功能(标配) ： 使电池成为可视化，可感知的智能设备

1. Ultra-high capacity & stable discharge – Say goodbye to power anxiety, use appliances freely.
2. Low-temperature heating technology (optional) – Extends the travel seasons and regions for your RV.
3. Comprehensive safety protection – Brand new Grade A $LiFePO_4$ cells, laser welding process, built-in intelligent BMS – keeping you safe.
4. 4G remote & Bluetooth function (standard) – Turns the battery into a visible, perceptible smart device.

- 内置电池管理模块，安全高效
- 结构紧凑，最小化占用空间
- 长寿命，全新A级电芯，持久耐用
- 手机APP监控: 实时查看电压、电流、电量、温度
- 参数自定义: 可根据需求灵活设置工作参数
- 历史数据记录: 循环次数、故障记录一目了然
- 激光焊接工艺：极其牢固且电阻极低，带来更长使用寿命和更稳定输出性能
- 4.3寸彩色显示屏: 单屏支持最多5组并联数据显示
- RS485/CAN：可接受设备通讯协议定制
- 质保：标准工况10年使用寿命，支持超长五年质保

- Built-in battery management module – safe and efficient
- Compact structure – minimizes occupied space
- Long service life – brand new Grade A cells – durable and long-lasting
- Mobile APP monitoring – real-time view of voltage, current, capacity, and temperature
- Customizable parameters – flexible setting of operating parameters according to needs
- Historical data logging – cycle counts and fault records at a glance
- Laser welding process – extremely robust with ultra-low resistance, delivering longer lifespan and more stable output performance
- 4.3-inch color display – supports parallel data display for up to 5 units on a single screen
- RS485 / CAN – accepts custom communication protocol for equipment
- Warranty – 10-year service life under standard operating conditions; supports extended 5-year warranty

房车储能锂电池技术参数表
Technical Data Sheet for RV Lithium Energy Storage Battery

电气性能	Electrical Performance												
额定电压	Nominal Voltage	12.8V4S (12V)					25.6V8S(24V)			51.2V16S (48V)			
额定容量Ah	Nominal Capacity	300	400	600	800	900	200	300	400	100	200	300	
额定电量Wh	Nominal Energy	3840	5120	7680	10240	11520	5120	7680	10240	5120	10240	15360	
电池材料	Battery Material	磷酸铁锂(LiFePO4)											
BMS管理系统	BMS System	2026-AI智能软件型电池管理系统AL-3.0(BMS) 2026-AI Intelligent Software-Type BMS AL-3.0											
充电电压	Charging Voltage	14.40V±0.02V (CC/CV)					28.80V±0.02V (CC/CV)			57.60V±0.02V (CC/CV)			3.6V
持续充电	Continuous Charging	≤150A	≤200A	≤200A	≤200A	≤200A	≤100A	≤150A	≤200A	≤50A	≤100A	≤150A	
持续放电	Continuous Discharging	≤150A	≤200A	≤200A	≤200A	≤200A	≤100A	≤150A	≤200A	≤50A	≤100A	≤150A	
峰值放电	Peak Discharging	≤450A	≤600A	≤600A	≤600A	≤600A	≤300A	≤450A	≤600A	≤150A	≤300A	≤450A	5S
瞬间放电	Instantaneous Discharging	≤450A	≤600A	≤600A	≤600A	≤600A	≤300A	≤450A	≤600A	≤150A	≤300A	≤450A	5S
过充电压	Overcharge Voltage	14.40V					28.80V			57.60V			3.6V
过放电压	Overdischarge Voltage	10.80V					21.60V			43.20V			2.7V
均衡电流	Balancing Current	80~100mA											
充电温度	Charging Temperature	0°C ~ +50°C											
放电温度	Discharging Temperature	-20°C ~ +55°C											
短路保护	Short Circuit Protection	1200uS (MOS)											
接线柱	Connection Post	M8接线柱 M8 Terminal											
通讯协议	Communication Protocol	支持Canbus/RS485协议 Supports CANbus / RS485 Protocol											2 or 1
数据通讯	Data Communication	4G远程、蓝牙 4G Remote, Bluetooth											标配 Standard
外壳	Enclosure	钣金烤漆 Powder Coated Sheet Metal											
显示器	Display	4.3寸彩色显示屏 4.3-inch Color Display											选配 Optional
其他功能	Other Functions	低温加热 Low-Temperature Heating											选配 Optional
充放电口	Charge/ Discharge Port	同口 Same Port											
尺寸	Dimensions	详情咨询，接受免费定制! For details, please inquire. Free customization is accepted!											+1.5mm
重量KG	Weight (kg)	28	40	50	75	85	40	50	75	40	75	95	+1.5kg

GEYA

动力和环保车电池

Traction and eco-friendly vehicle batteries

2轮电动车、观光车、叉车、3轮车、
高尔夫球车、AGV和机器人
Two-wheel electric vehicles, sightseeing vehicles, forklifts, three-wheel electric vehicles, golf carts, AGVs and robots



- 使用全新原厂A级动力磷酸铁锂电芯
- 配备2025-AI智能软件型电池管理系统（BMS）
- 支持5组电池通讯并联，在同一显示屏查看数据
- 可选配自研发4.3寸彩屏、低温加热功能
- 精准温度监控、毫伏级电压采集
- BMS支持RS485或CAN通讯协议
- 易安装&易操作&易维护
- 多重绝缘材料包裹设计，提高安全性
- 采用4KW车级激光焊接汇流排工艺，超200A持续稳定过流能力
- 具有短路保护&过充保护&过放保护&高温保护&低温保护功能
- 特殊设计拱形汇流排，消除膨胀应力，提高安全性延长使用寿命
- 小程序/App智能4G远程、蓝牙读取电池信息，支持远程锁止

- Use brand new original Grade A power $LiFePO_4$ battery cells
- Equipped with 2025-AI intelligent software-based Battery Management System (BMS)
- Supports communication and parallel connection of up to 5 battery packs – data viewable on a single display
- Optional self-developed 4.3-inch color display and low-temperature heating function
- Precise temperature monitoring & millivolt-level voltage sampling
- BMS supports RS485 or CAN communication protocols
- Easy installation, easy operation, easy maintenance
- Multi-layer insulation material wrapping design for enhanced safety
- Adopts 4kW automotive-grade laser welding busbar technology – over 200A continuous stable current capability
- Features short-circuit protection, over-charge protection, over-discharge protection, high-temperature protection, and low-temperature protection
- Specially designed arched busbar eliminates expansion stress – improves safety and extends service life
- Mini-program/App smart 4G remote and Bluetooth reading of battery information – supports remote locking

动力电源参数表 Power supply parameter table									
产品型号	Product Model	51.2V100Ah	51.2V200Ah	64V100Ah	64V200Ah	76.8V100Ah	76.8V200Ah	96V100Ah	96V200Ah
额定能量	Rated Energy	5120wh	10240wh	6400wh	12800wh	7680wh	15360wh	9600wh	19200wh
电芯类型	Cell Type	LFP(LiFePO4)磷酸铁锂							
标称电压	Nominal Voltage	51.2V		64.0V		76.8V		96V	
工作电压	Operating Voltage	43.2~57.6V		54.0 ~ 72.0V		64.8 ~ 86.4V		81.0~108.0V	
充电电压	Charging Voltage	57.6V(CC/CV)		72V (CC/CV)		86.4 (CC/CV)		108 (CC/CV)	
充电电流(A)	Charging Current (A)	≤50	≤100	≤50	≤100	≤100	≤100	≤50	≤100
放电电流(A)	Discharging Current (A)	≤100	≤100	≤100	≤100	≤100	≤100	≤50	≤100
工作温度(°C)	Operating Temperature (°C)	充电Charging:0~+55°C，放电Discharging:-20~+55°C							
通讯方式	Communication Method	RS485、CAN							
储存温度	Storage Temperature	>1 month:0~+35°C, ≤1 month :-20~+45°C							
相对湿度	Relative Humidity	≤90%							
出货电量	Shipment Capacity	30%-50%							
重量	Weight	40kg	75kg	50kg	90kg	58kg	120kg	75kg	150kg
尺寸	Dimensions	详情咨询，接受免费定制!For detailed consultation, we accept free customization!							



GEYA

66HL4M-BDV 605-630W

高效单晶硅双面半片太阳能组件

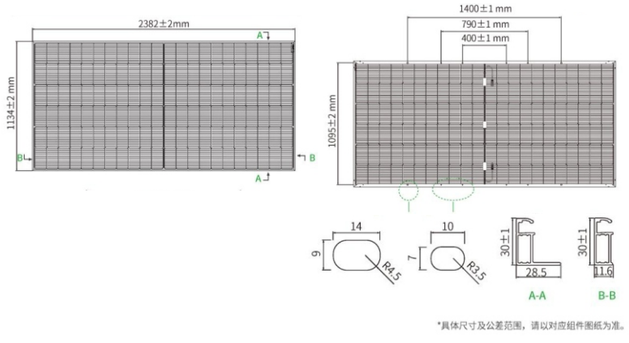
High-efficiency monocrystalline silicon bifacial half-cell solar panel



- 使用Tunnel Oxide Passivating Contacts (TOPCon)技术的N型组件具有更低的LID/LeTID衰减，以及更优的弱光表现。
- 使用HOT 3.0技术的N型组件具有更佳的可靠性及发电效率。
- 双面发电增益随背面受光增加，显著降低LCOE。
- 整体组件通过 5400Pa 的正面最大测试静态载荷及 2400Pa 的背面最大测试静态载荷认证。
- 更优的光线利用率和电流收集能力，有效提升产品功率输出和可靠性。
- 通过电池生产技术优化及材料管控将PID 现象造成的衰减几率降至最小。

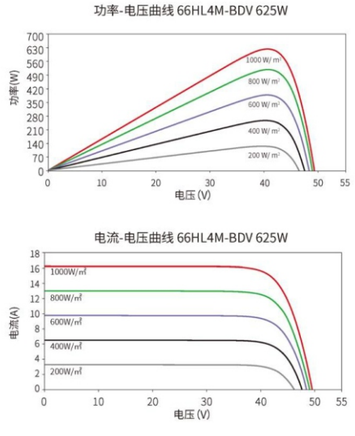
- N-type modules using Tunnel Oxide Passivating Contacts (TOPCon) technology feature lower LID/LeTID degradation and better low-light performance.
- N-type modules using HOT 3.0 technology offer improved reliability and power generation efficiency.
- Bifacial power generation gain increases with rear-side light exposure, significantly reducing LCOE.
- The complete module is certified for a maximum tested static load of 5400 Pa on the front side and 2400 Pa on the rear side.
- Better light utilization and current collection capability effectively increase product power output and reliability.
- Through optimization of cell production technology and material control, the probability of degradation caused by PID (Potential Induced Degradation) is minimized.

装配图 Assembly drawing



*具体尺寸及公差范围，请以对应组件图纸为准。

曲线图 Curve graph



结构参数 Structural parameters

电池片类型	Cell Type	N型单晶硅电池片	N-Type Monocrystalline Silicon Cell
半片电池片数目	Number of Half-Cells	132 (66x2)	132 (66x2)
组件尺寸	Module Dimensions	2382x1134x30 mm	2382x1134x30 mm
组件重量	Module Weight	32.4 kg	32.4 kg
上表面玻璃材质	Front Glass Material	2.0mm，高透镀膜玻璃	2.0mm，Anti-Reflective coated glass
下表面玻璃材质	Back Glass Material	2.0mm，半钢化玻璃阳极氧化铝合金	2.0mm，Semi-Tempered Glass
边框	Frame	防护等级IP68	Protection Class IP68
接线盒	Junction Box	Class II	Class II
安全防护等级	Safety Protection Class	ClassC	ClassC
IEC组件防火等级	IEC Module Fire Rating	JK03M/MC4/其他	JK03M/MC4/Others
连接器类型	Connector Type	4.0mm²	4.0mm²
输出导线	Output Cables	导线长度:(+):300 mm,(-):200mm;	Cable Length:(+):300 mm,(-):200mm;

包装标准 Packing Standard

每托尺寸	Dimensions per pallet	2396x1110x1251mm	2396x1110x1251mm
包装信息	Packaging information	13米平板车:36块/托，20托/车，720块/车 17.5米平板车:36块/托，25托/车，900块/车	13m flatbed truck: 36 pcs/pallet, 20 pallets/truck → 720 pcs/truck 17.5m flatbed truck: 36 pcs/pallet, 25 pallets/truck → 900 pcs/truck

电性能参数(STC) Electrical Performance Parameters (STC)

最大功率Pmax[W]	Maximum Power (Pmax) [W]	605	610	615	620	625	630
最佳工作电压Vmp[M]	Optimum Operating Voltage (Vmp) [V]	40.31	40.46	40.60	40.74	40.88	41.02
最佳工作电流Imp[A]	Optimum Operating Current (Imp) [A]	15.01	15.08	15.15	15.22	15.29	15.36
开路电压Voc[M]	Open Circuit Voltage (Voc) [V]	48.48	48.68	48.88	49.08	49.28	49.48
短路电流Isc[A]	Short Circuit Current (Isc) [A]	15.90	15.96	16.02	16.08	16.14	16.20
组件效率[%]	Module Efficiency [%]	22.4	22.6	22.8	23.0	23.1	23.3
输出功率公差	Output Power Tolerance	0~+3%					
最大功率的温度系数Pmax	Temperature Coefficient of Pmax	-0.29%/°C					
开路电压的温度系数Voc	Temperature Coefficient of Voc	-0.25%/°C					
短路电流的温度系数Isc	Temperature Coefficient of Isc	0.045%/°C					

标准测试条件(STC):光照强度1000W/m2，电池温度25°C，大气质量1.5
Standard Test Conditions (STC): irradiance 1000 W/m², cell temperature 25°C, air mass 1.5

电性能参数(BNPI) Electrical Performance Parameters (BNPI)

最大功率Pmax[W]	Maximum Power Pmax [W]	668	674	679	685	690	696
最佳工作电压Vmp[V]	Optimum Operating Voltage Vmp [V]	40.29	40.46	40.59	40.75	40.88	41.04
最佳工作电流Imp[A]	Optimum Operating Current Imp [A]	16.58	16.66	16.73	16.81	16.88	16.95
开路电压Voc[M]	Open Circuit Voltage Voc [V]	48.46	48.66	48.86	49.06	49.26	49.46
短路电流Isc[A]	Short Circuit Current Isc [A]	17.56	17.64	17.70	17.77	17.83	17.90

双面测试条件(BNPI):光照强度:正面1000W/m2，背面135W/m2，环境温度25°C，大气质量1.5
Bifacial Test Conditions (BNPI):Irradiance: 1000 W/m² (front), 135 W/m² (rear)Ambient temperature: 25°C ,Air mass: 1.5

应用条件 Application conditions

工作温度范围	Operating Temperature Range	-40°C~+70°C
最大系统电压	Maximum System Voltage	1500VDC (1EC)
最大额定熔丝电流	Maximum Rated Fuse Current	35A
双面系数	Bifacial Coefficient	φVoc: 98±5 %, φIsc: 80±5 %, φPmax: 80±5 %