

ScapePhoton

Energy Storage System

Where Energy Flows Innovation Follows

Empowering the future through advanced clean energy.

ScapePhotonEnergy.com



HIGH VOLTAGE HOME STORAGE BATTERY
高压家庭储能电池



超长循环，可达到6000+，使用5年以上；
Extra long cycle, reached 6000+, used ≥5 years;



支持模块串联（3-10），可扩展51.2kWh；
Supports module connection (3-10), expanded 51.2kWh;



模块快速连接，接线少；IP65高效防护；
Quick connection of modules, few wiring; High-efficiency protection of IP65;

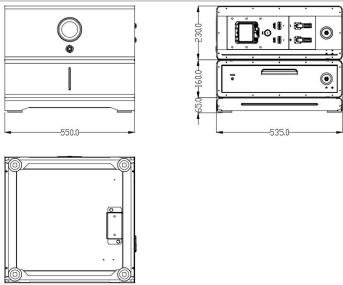


匹配市面多种逆变器；
Matching a variety of inverters;



采用磷酸铁锂电池体系，BMS全生命周期安全管控；
Lithium iron phosphate battery system, BMS safety control;

几何尺寸 Dimensions



结构 Structure



参数 Parameter	HVS(M1+S 2)	HVS(M1+S 3)	...	HVS(M1+S9)
模组类型 Module Type	100-16S1P			
循环寿命 Cyclic Life	≥6000 cycles @80%DOD			
显示 Display	LCD			
自耗电 Self-Consumed Electricity	1%/M			
标称容量 Rated Capacity (kWh)	15.3	20.5	5.12×N	51.2
标称电压 Rated Voltage (V)	153.6	204.8	51.2×N	512
工作电压 Working Voltage (V)	134.4~172.8	179.2~230.4	(44.8~57.6) ×N	448~576
推荐放电电流 Recommended Discharge Current	50 A			
最大充放电电流 Maximum Charge And Discharge Current	100 A			
峰值放电电流 Peak Discharge Current	120A @20s			
电池组循环效率 Cycle Efficiency	≥97 %			
放电深度 DOD	99 %			
并簇 Parallel	≤ 3			
工作温度 Working Temperature	充电 Charge : 0~55 °C 放电 Discharge : -10~60 °C			
交互 Interaction	WiFi & RJ45			
储存温度 Storage Temperature	0~40 °C			
尺寸(W×H×D) Dimensions (mm)	550×550×535	550×710×535	550× (160N+230) ×535	550×1670×535
重量 Weight (kg)	146±1	192±1.5	46×N+54	468±2
IP	IP65			



Rack High Voltage Box + Battery 机架式高压盒+电池



超长循环，可达到6000+，使用5年以上；
Extra long cycle, reached 6000+, Used ≥ 5 years;



支持模块串联（3-16）；
Supports module connection (3-16);



模块化设计，易扩容，无需机架；
Modular design, easy to expand, without Rack

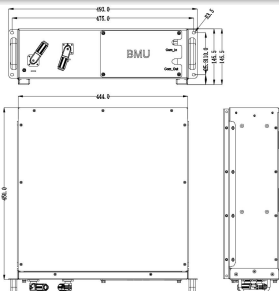


匹配市面多种逆变器；
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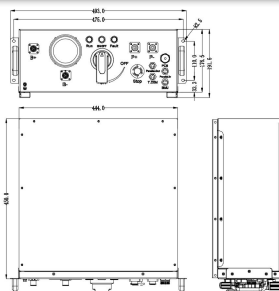


采用磷酸铁锂电池体系，BMS全生命周期安全管控；
Lithium iron phosphate battery system, BMS safety control;

高压电池 PACK

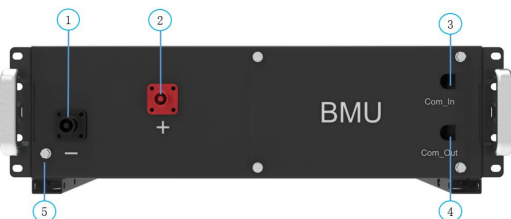


高压盒 HVBOX



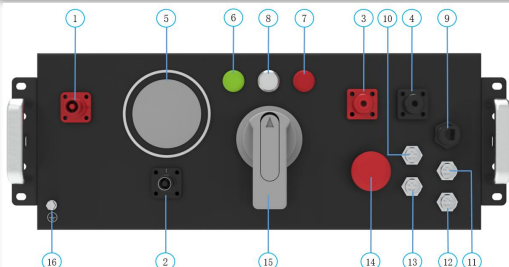
参数 Parameter	H1 × 3	H1 × 4	...	H1 × N (≤16)
模组类型 Module Type	100Ah-16S1P			
循环寿命 Cyclic Life	≥ 6000 cycles @80%DOD			
自耗电 Self-Consumed Electricity	1%/M			
标称容量 Nominal Capacity (kWh)	15.36	20.48	...	51.2×N
标称电压 Nominal Voltage (V)	153.6	204.8	...	51.2×N
工作电压 Operating Voltage (V)	134.4~172.8	179.2~230.4	...	(44.8~57.6)×N
推荐放电电流 Recommended Discharge Current	50 A			
最大充电电流 Maximum Charge And Discharge Current	100 A			
峰值放电电流 Peak Discharge Current	120A @20s			
电池组循环效率 Cycle Efficiency	$\geq 97\%$			
交互 Interaction	WiFi & RJ45			
放电深度 DOD	90 %			
工作温度 Working temperature	充电 Charge : 0~55 °C 放电 Discharge : -10~60 °C			
储存温度 Storage Temperature	0~40			
尺寸(W×H×D) Dimensions (mm)	Battery: W484.6*H1147; HVBOX: W484.6*H191.5			
包装尺寸(W×H×D) Dimensions(mm)	Battery: W575×D510×H195; HVBOX: W575×D510×H245;			
重量 Weight	Battery: 45 Kg HVBOX: 25 Kg			

电池接口定义 Battery Interface Definition



Serial	Definition	Serial	Definition
1	Battery Negative B-	2	Battery Positive B+
3	BMU In Communication	4	BMU Out Communication
5	GND		

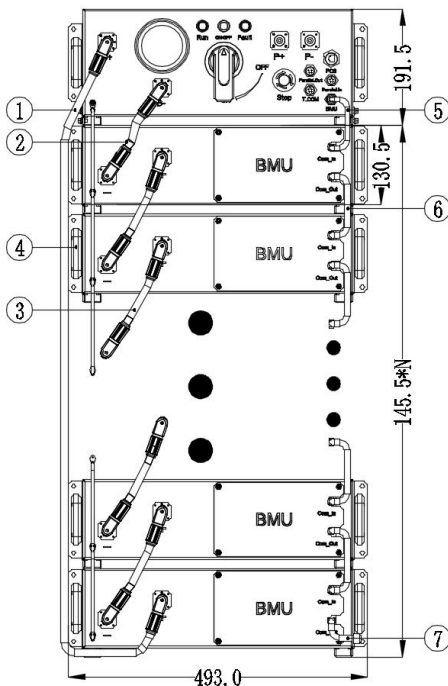
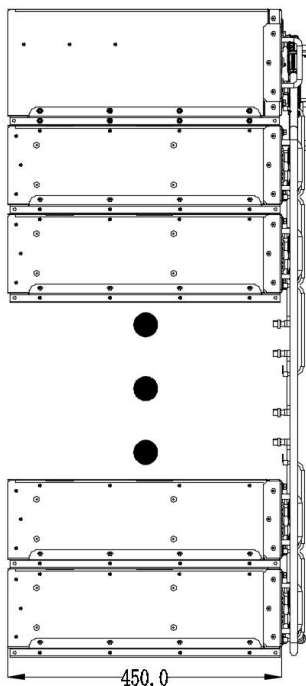
高压盒接口定义 HVBox Interface Definition



Serial	Definition	Serial	Definition
1	Battery Positive B+	2	Battery Negative B-
3	Inverter Positive P+	4	Inverter Negative P-
5	LCD	6	Run Indicator Light
7	Fault Indicator Light	8	Power Switch
9	Inverter communication	10	并机通讯 Parallel Out Communication
11	并机通讯 Parallel In Communication	12	BMU Communication
13	Test.Com (Computer)	14	Emergency Stop
15	Main Circuit Breaker	16	GND

接线示意 Wiring Diagram

Serial	Definition	Serial	Definition
1	Positive Power B+	2	Negative Power B-
3	Series Power	4	GND Line
5	Series HVBOX Com	6	Serial Communication Line
7	Terminal Communication Line	8	

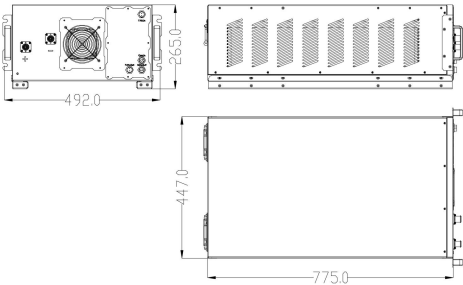




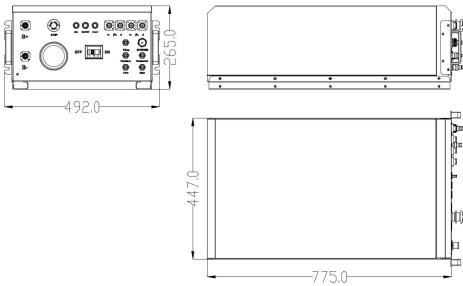
Rack High Voltage Box + Battery
机架式高压盒+电池

- 超长循环，可达到8000+，使用8年以上；
Extra long cycle, reached 8000+, used ≥ 8 years;
- 支持模块串联（3-18）；
Supports module connection (3-18) ；
- 模块化设计，易扩容，无需机架；
Modular design, easy to expand, without Rack
- 匹配市面多种逆变器；
Matching a variety of inverters;
- 采用磷酸铁锂电池体系，BMS全生命周期安全管控；
Lithium iron phosphate battery system, BMS safety control;

高压电池 PACK

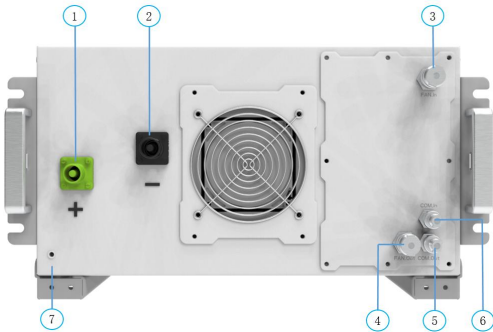


高压盒 HVBOX



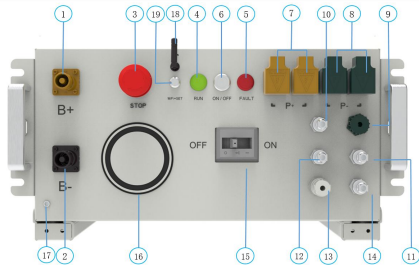
参数 Parameter	H1 × 3	H1 × 4	...	H1 × N (≤18)
模组类型 Module Type	314Ah-16S1P			
循环寿命 Cyclic Life	≥ 8000 cycles @80%DOD			
自耗电 Self-Consumed Electricity	1%/M			
标称容量 Nominal Capacity (kWh)	48.23	64.3	...	16.07×N
标称电压 Nominal Voltage (V)	153.6	204.8	...	51.2×N
工作电压 Operating Voltage (V)	134.4~172.8	179.2~230.4	...	(44.8~57.6)×N
推荐放电电流 Recommended Discharge Current	140 A			
最大充放电流 Maximum Charge And Discharge Current	200 A			
峰值放电电流 Peak Discharge Current	314A @20s			
电池组循环效率 Cycle Efficiency	≥ 97 %			
交互 Interaction	WiFi & RJ45			
放电深度 DOD	90 %			
显示 Display	LCD			
工作温度 Working temperature	充电 Charge : 0~55 ℃ 放电 Discharge : -10~60 ℃			
储存温度 Storage Temperature	0~40 ℃			
尺寸(W×H×D) Dimensions (mm)	Battery: W492×D775×H265; HVBOX: W492×D775×H265			
冷却方式 Cooling	风冷 FAN			
输出 Output	2×100 A			
重量 Weight	Battery: 118 (135) Kg HVBOX: 27 (49) Kg			

电池接口定义 Battery Interface Definition



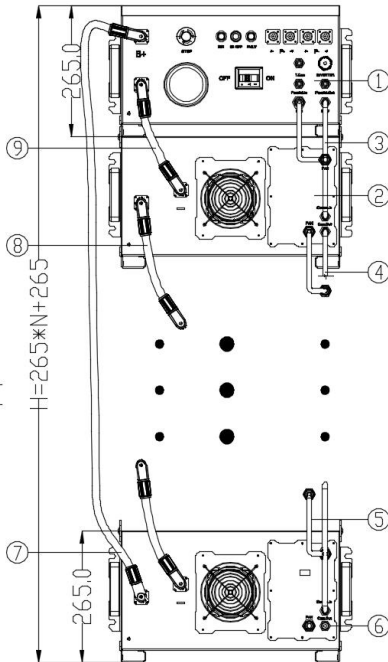
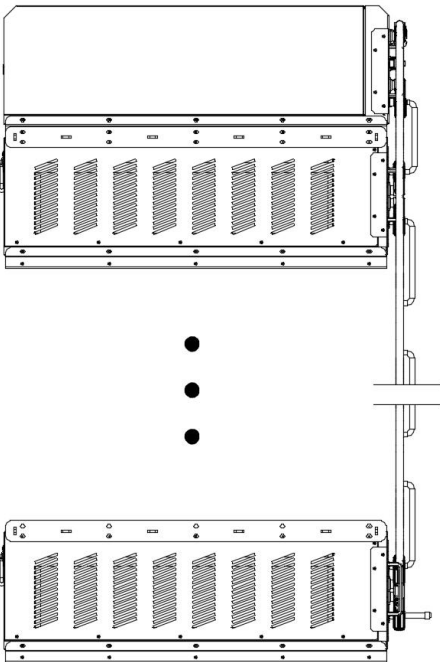
序号 Serial	描述 Definition	序号 Serial	描述 Definition
1	电池正 Battery Positive B+	2	电池负 Battery Negative B-
3	风扇电源进 Power Fan In	4	风扇电源出 Power Fan Out
5	BMU通讯进线 BMU In Com	6	BMU通讯进线 BMU In Com
7	地线 GND Line		

高压盒接口定义 HVbox Interface definition



序号 Serial	描述 Definition	序号 Serial	描述 Definition
1	电池正 Battery Positive B+	2	电池负 Battery Negative B-
3	BMU通讯进线 BMU In Com	4	BMU通讯出线 BMU Out Com
5	故障指示灯 Fault Indicator Light	6	激活开关 Power Switch
7	逆变器正极 Inverter Positive P+(2*100A)	8	逆变器负极 Inverter negative P-(2*100A)
9	逆变器通讯 Inverter Com	10	上位机调试口 Test.Com (computer)
11	并机通讯出线 Parallel Out Com	12	并机通讯进线 Parallel In Com
13	风扇电源 Power Fan	14	BMU通讯 BMU Com
15	主断路器 Main Breaker	16	显示屏 LCD
17	地线 GND Line	18	WIFI
19	WIFI恢复 Restore		

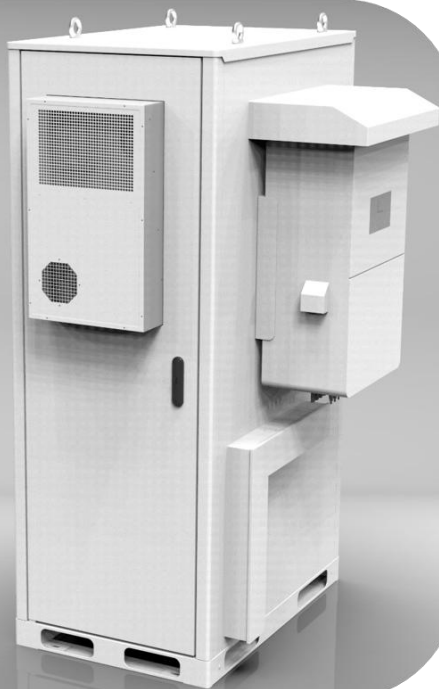
接线示意 Wiring Diagram



序号 Serial	描述 Definition
01	高压盒 H-BOX04
02	电池模块 Battery
03	电池-高压盒通讯线 BMU-BOX Com
04	电池通讯线 BMU Com
05	风扇供电线 Fan Power Line
06	电池终端通讯线 BMU Terminal Com
07	逆变器正极动力线 Inverter Positive P+
08	串联动力线 Power-Series Line
09	逆变器负极动力线 Inverter Negative P-

Efficient C&I Energy Storage Solution

高效工商业储能方案



All In One - CI50112



搭载高循环寿命电芯，降低度电成本
High cycle life battery cell, reduce Electricity cost



智能风冷，精细化温控管理，电池寿命延长50%
Intelligent air cooling, refined temperature control management, and battery life is extended by 50%

集成化设计，高能量密度，降低部署空间
Integrated design, high energy density, reduce deployment space

PACK 级沉浸式消防，高安全
Immersive firefighting in pack, high safety



柜体IP54 高防护，适应户外复杂场景
IP55 high protection, adapting to complex outdoor scenes



智能化电池健康管理（健康评估、安全预警、寿命预测）
Intelligent battery health management (health assessment, safety warning, life expectancy)

云平台智慧管理，全场景使用，从发电侧到用户侧
Smart management of cloud platform, full-scene use, from power generation to user side

灵活部署，即插即用，缩短建设周期
Flexible deployment, plug and play, shorten construction cycle



数据中心
Data Center



商业楼宇
Commercial buildings



工业园区
Industrial Park



光储充
PVSE



台区扩容
Electricity EXP



系统参数

类目/Item	参数/Specification
系统型号 System model	CI50112
系统信息/System Information	
额定交流功率 Rated AC power	50 kW
额定容量 Rated capacity	112.538 kWh
空调 Air Conditioner	cooling: 2.0 kW
电池信息/Battery information	
电芯 Cell	LFP
容量 Capacity	314 Ah
配置 Configuration	112S1P (7×16)
额定电压 Rated voltage	358.4 V
电压范围 Voltage range	313.6 ~ 403.2 V
逆变器信息/Inverter information	
最大交流功率 Maximum AC power	50 kW
额定电网/孤岛电压 Rated grid/island voltage	3/N/PE, 220/380 Vac
最大输出视在功率 Maximum output apparent power	55 kVA
功率因数 Power factor	0.8 ahead ~ 0.8 lag
额定电网频率 Rated grid frequency	50 / 60 Hz
隔离方式 Isolation	无变压器 Transformerless
运行环境/Working environment	
防护等级 Degree of Protection	IP54
噪音排放 Noise emissions	≤72dB @1m
运行温度范围 Operating temperature range	-20 ~ 55 °C
相对温度 Relative temperature	0 ~ 95 % (No condensing)
最大运行海拔 Maximum operating altitude	2000 m
系统信息/System Information	
尺寸 Dimensions	W1250×D1350×H2250 mm
重量 Weight	1500 Kg
冷却方式 Cooling Method	风冷 FAN Cooling
PCS 冷却方式 Cooling Method	翅片散热 Heat Sink Cooling
灭火系统 Fire Extinguishing	气溶胶 Aerosol
通讯协议 Communication Protocol	Modbus TCP/IP

All in one storage battery
储能一体机



超长循环，可达到8000+，使用5年以上；
Extra long cycle, reached 8000+, Used $\geq$ 5 years;



多种输出接口，纯正正弦波，匹配多种电器负载；
Multiple output interfaces, Pure sine waves, Matching multiple electrical loads;

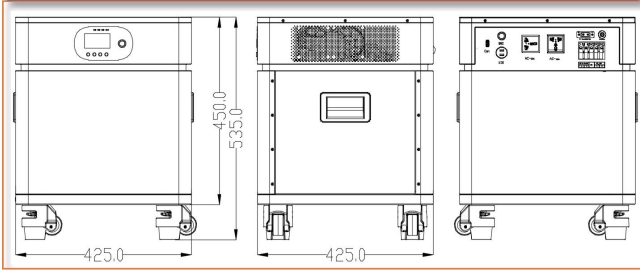


高功率智能耦合机，即插即用；
High power intelligent AC coupling machine, Plug and play;



磷酸铁锂电池体系，BMS全生命周期安全管控；
Lithium iron phosphate battery system, BMS safety control;

几何尺寸 Dimensions



输入 Input SpecificationsG

AC Power	3 kW
AC Voltage	230 Vac (50/60 Hz)
MPPT	
PV Power	3.6 kW
PV Voltage Range	40~450 V

输出 Output Specifications

Inverter Type	Pure Sine Wave
AC Voltage	230 Vac (50/60 Hz)
AC Power (10A×1,16A×1) AC Terminals Power (×1)	2 kW
	Total 3.6 kW
Conversion Efficiency	90 %
UPS 切换时间 Switch Time	$\leq$ 10 ms (排除电机、空调等感性负载 Inductive Loads Such As Motors , Air Conditioners)

电池 Battery

平台电压 Rated Voltage	25.6 V
电压范围 Voltage Range	22.4 ~ 28.4 V
组串形式 String	8S1P
额定电量 Rated Power	8.038 kWh
Cell Capacity	314 Ah
持续充电电流 Continuous Charging Current	140 A
持续放电电流 Continuous Discharge Current	140 A
电芯材料 Cell Material	LFP(磷酸铁锂)
循环寿命 Cyclic life	8000次循环后,剩余容量 $\geq$ 70% 8000 Cycles + SOH $\geq$ 70%
保护类型 Protection Type	运行状态报警、高温保护、低温保护、过放 保护、过充保护、过载保护、短路保护、过 流保护 High temperature, low temperature, over-discharge, overcharge, overload, short circuit, overcurrent protection

基本参数 Parameter

显示 Display	LCD
最佳使用环境温度 Optimal Ambient Temperature	20~30 °C
放电环境温度 Discharge Ambient Temperature	-10~60 °C
充电环境温度 Charging Ambient Temperature	0~60 °C
存储环境温度 Storage Ambient Temperature	-30~60 °C (20~30°C Suitable)
工作湿度 Working Humidity	< 95%RH
净重 Net Weight	$\approx$ 60Kg
材质 Material	Metal
并机	Na
冷却 Cool	风冷 Air-cool
尺寸 Dimensions	W425×D425×H535 mm
IP	IP20
认证 Certification	UN38.3,MSDS,CE

All in one storage battery
储能一体机



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Multiple output interfaces, Pure sine waves, Matching multiple electrical loads;

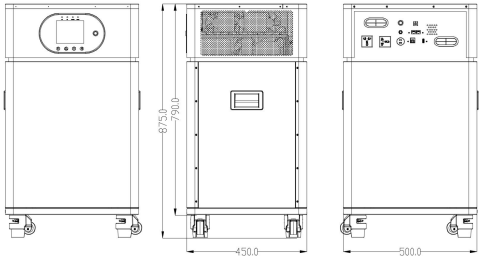


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几何尺寸 Dimensions



输入 Input SpecificationsG

AC Power	11 kW
AC Voltage	230 Vac (50/60 Hz)
MPPT	
PV Power	30A*2/14kW
PV Voltage Range	90~450 V

电池 Battery

平台电压 Rated Voltage	51.2 V
电压范围 Voltage Range	44.8 ~ 56.8 V
组串形式 String	16S1P
额定电量 Rated Power	16.078 kWh
Cell Capacity	314 Ah
持续充电电流 Continuous Charging Current	140 A
持续放电电流 Continuous Discharge Current	200 A
电芯材料 Cell Material	LFP(磷酸铁锂)
循环寿命 Cyclic life	8000次循环后,剩余容量 $\geq$ 70% 8000 Cycles + SOH $\geq$ 70%
保护类型 Protection Type	运行状态报警、高温保护、低温保护、过放保护、过充保护、过载保护、短路保护、过流保护 High temperature, low temperature, over-discharge, overcharge, overload, short circuit, overcurrent protection
平台电压 Rated Voltage	51.2 V
电压范围 Voltage Range	44.8 ~ 56.8 V

输出 Output Specifications

Inverter Type	Pure Sine Wave
AC Voltage	230 Vac (50/60 Hz)
AC Power (x2) AC Terminals Power (x1)	2 kW 11 kW
Conversion Efficiency	95 %
UPS 切换时间 Switch Time	$\leq$ 10 ms (排除电机、空调等感性负载 Inductive Loads Such As Motors , Air Conditioners)

基本参数 Parameter

显示 Display	LCD
最佳使用环境温度 Optimal Ambient Temperature	20~30 $^{\circ}$ C
放电环境温度 Discharge Ambient Temperature	-10~60 $^{\circ}$ C
充电环境温度 Charging Ambient Temperature	0~60 $^{\circ}$ C
存储环境温度 Storage Ambient Temperature	-30~60 $^{\circ}$ C (20~30 $^{\circ}$ C Suitable)
工作湿度 Working Humidity	< 95%RH
净重 Net Weight	$\approx$ 155 Kg
材质 Material	Metal
并机	Na
冷却 Cool	风冷 Air-cool
尺寸 Dimensions	W500×D450×H790 mm
IP	IP20
认证 Certification	UN38.3,MSDS,CE



All in one storage battery
储能一体机



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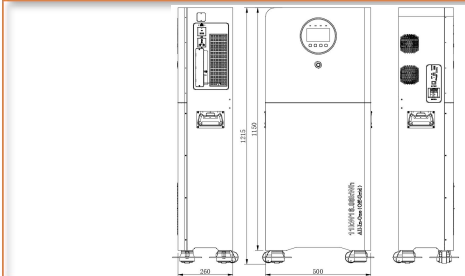


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几何尺寸 Dimensions



输入 Input SpecificationsG

AC Power	7 kW
AC Voltage	230 Vac (50/60 Hz)
MPPT	
PV Power	30A*2/14kW
PV Voltage Range	90~450 V

电池 Battery

平台电压 Rated Voltage	51.2 V
电压范围 Voltage Range	44.8 ~ 56.8 V
组串形式 String	16S1P
额定电量 Rated Power	16.08 kWh
Cell Capacity	314 Ah
持续充电电流 Continuous Charging Current	140 A
持续放电电流 Continuous Discharge Current	200 A
电芯材料 Cell Material	LFP(磷酸铁锂)
循环寿命 Cyclic life	8000次循环后,剩余容量 $\geq$ 70% 8000 Cycles + SOH $\geq$ 70%
保护类型 Protection Type	运行状态报警、高温保护、低温保护、过放保护、过充保护、过载保护、短路保护、过流保护 High temperature, low temperature, over-discharge, overcharge, overload, short circuit, overcurrent protection
平台电压 Rated Voltage	51.2 V
电压范围 Voltage Range	44.8 ~ 56.8 V

输出 Output Specifications

Inverter Type	Pure Sine Wave
AC Voltage	230 Vac (50/60 Hz)
AC Power (x2) AC Terminals Power (x1)	2 kW 11 kW
Conversion Efficiency	95 %
UPS 切换时间 Switch Time	$\leq$ 10 ms (排除电机、空调等感性负载 Inductive Loads Such As Motors , Air Conditioners)

基本参数 Parameter

显示 Display	LCD
最佳使用环境温度 Optimal Ambient Temperature	20~30 $^{\circ}$ C
放电环境温度 Discharge Ambient Temperature	-10~60 $^{\circ}$ C
充电环境温度 Charging Ambient Temperature	0~60 $^{\circ}$ C
存储环境温度 Storage Ambient Temperature	-30~60 $^{\circ}$ C (20~30 $^{\circ}$ C Suitable)
工作湿度 Working Humidity	< 95%RH
净重 Net Weight	$\approx$ 160 Kg
材质 Material	Metal
并机	Na
冷却 Cool	风冷 Air-cool
尺寸 Dimensions	W500×D260×H1215 mm
IP	IP20
认证 Certification	UN38.3,MSDS,CE



All in one storage battery
储能一体机



超长循环，可达到8000+，使用5年以上；
Extra long cycle, reached 8000+, Used ≥ 5 years;



多种输出接口，纯正弦波，匹配多种电器负载；
Multiple output interfaces, Pure sine waves, Matching multiple electrical loads;

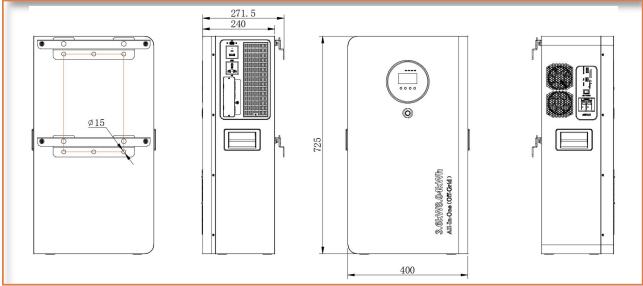


高功率智能耦合机，即插即用；
High power intelligent AC coupling machine, Plug and play;



磷酸铁锂电池体系，BMS全生命周期安全管控；
Lithium iron phosphate battery system, BMS safety control;

几何尺寸 Dimensions



输入 Input Specifications

AC Power	2.5 kW
AC Voltage	230 Vac (50/60 Hz)
MPPT	
PV Power	3.6 kW
PV Voltage Range	40~450 V

电池 Battery

平台电压 Rated Voltage	25.6 V
电压范围 Voltage Range	22.4 ~ 28.4 V
组串形式 String	8S1P
额定电量 Rated Power	8.038 kWh
Cell Capacity	314 Ah
持续充电电流 Continuous Charging Current	140 A
持续放电电流 Continuous Discharge Current	140 A
电芯材料 Cell Material	LFP(磷酸铁锂)
循环寿命 Cyclic life	8000次循环后,剩余容量 $\geq 70\%$ 8000 Cycles + SOH $\geq 70\%$
保护类型 Protection Type	运行状态报警、高温保护、低温保护、过放保护、过充保护、过载保护、短路保护、过流保护 High temperature, low temperature, over-discharge, overcharge, overload, short circuit, overcurrent protection

输出 Output Specifications

Inverter Type	Pure Sine Wave
AC Voltage	230 Vac (50/60 Hz)
AC Power (10A $\times$ 1,16A $\times$ 1) AC Terminals Power ($\times$ 1)	2 kW Total 3.6 kW
Conversion Efficiency	90 %
UPS 切换时间 Switch Time	≤ 10 ms (排除电机、空调等感性负载 Inductive Loads Such As Motors , Air Conditioners)

基本参数 Parameter

显示 Display	LCD
最佳使用环境温度 Optimal Ambient Temperature	20~30 $^{\circ}$ C
放电环境温度 Discharge Ambient Temperature	-10~60 $^{\circ}$ C
充电环境温度 Charging Ambient Temperature	0~60 $^{\circ}$ C
存储环境温度 Storage Ambient Temperature	-30~60 $^{\circ}$ C (20~30 $^{\circ}$ C Suitable)
工作湿度 Working Humidity	< 95%RH
净重 Net Weight	$\approx$ 65Kg
材质 Material	Metal
并机	Na
冷却 Cool	风冷 Air-cool
尺寸 Dimensions	W400 $\times$ D240 $\times$ H725 mm
IP	IP20
认证 Certification	UN38.3,MSDS,CE

LOW VOLTAGE STORAGE BATTERY 低压电池



超长循环, 可达到8000+, 使用8年以上;
Extra long cycle, reached 8000+, Used $\geq$ 8 years;



支持多机并联;
support for multi-machine parallel connection;



移动性强, 灵活部署;
Strong mobility, flexible deployment;

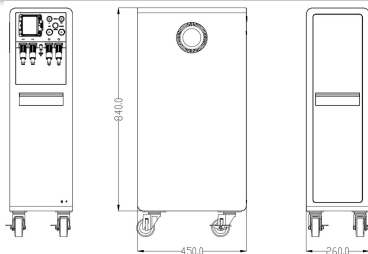


LCD,友好人机交互;
LCD,Smart human-computer interaction ;



磷酸铁锂电池体系, BMS全生命周期安全管控;
Lithium iron phosphate battery system, BMS safety control;

几何尺寸 Dimensions



参数 Parameter

基本参数 Basic Parameters	额定电压 Rated Voltage	51.2 V
	额定容量 Rated Capacity	314 Ah
	额定电量 Rated Power	16.078 kWh
	模组类型 Module Type	16S1P
	循环寿命 Cyclic Life	$\geq$ 8000 cycles @70%DOD
	自耗电 Self-Consumed Electricity	1%/M
	充电效率 Charging Efficiency	$\geq$ 97 %
	放电效率 Discharge Efficiency	$\geq$ 98 %
	通讯 Communication	CAN/RS485
	建议充电电压 Recommended Charging Voltage	57.6 V
充电特性 Charging Characteristics	建议充电电流 Recommended Charging Current	140 A
	充电截止电压 Charging Cut_off Voltage	58.4 V
	截止充电电流 Off_Charge Current	10 A
	建议放电电流 Recommended Discharge Current	200 A
放电特性 Discharge Characteristics	最大瞬间放电电流 Max Instantaneous Discharge Current	220 A @20s
	截止电压 Cut_off Voltage	44.8 V
环境 Environment	充电温度范围 Charging Temperature Range	0 ~ 55 °C
	放电温度范围 Discharge Temperature Range	-10 ~ 60 °C
	存储温度范围 Storage Temperature	0 ~ 40 °C
其他 Other	IP	IP65
	材质 Material	Metal
	重量 Weight	$\approx$ 120 kg
	尺寸 Dimensions	W450×H840×D260 mm

LOW VOLTAGE STORAGE BATTERY 低压电池



超长循环, 可达到8000+, 使用8年以上;
Extra long cycle, reached 8000+, Used $\geq$ 8 years;



支持多机并联;
support for multi-machine parallel connection;



移动性强, 灵活部署;
Strong mobility, flexible deployment;

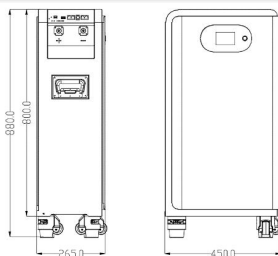


LCD,友好人机交互;
LCD,Smart human-computer interaction ;



磷酸铁锂电池体系, BMS全生命周期安全管控;
Lithium iron phosphate battery system, BMS safety control;

几何尺寸 Dimensions



参数 Parameter

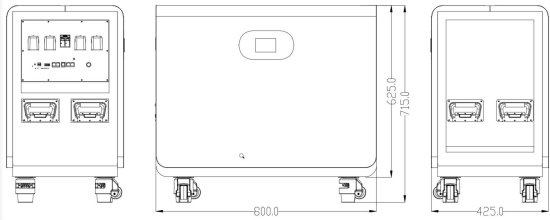
基本参数 Basic Parameters	额定电压 Rated Voltage	51.2 V
	额定容量 Rated Capacity	314 Ah
	额定电量 Rated Power	16.078 kWh
	模组类型 Module Type	16S1P
	循环寿命 Cyclic Life	$\geq$ 8000 cycles @70%DOD
	自耗电 Self-Consumed Electricity	1%/M
	充电效率 Charging Efficiency	$\geq$ 97 %
	放电效率 Discharge Efficiency	$\geq$ 98 %
	通讯 Communication	CAN/RS485
	建议充电电压 Recommended Charging Voltage	57.6 V
充电特性 Charging Characteristics	建议充电电流 Recommended Charging Current	140 A
	充电截止电压 Charging Cut_off Voltage	58.4 V
	截止充电电流 Off_Charge Current	10 A
	建议放电电流 Recommended Discharge Current	200 A
放电特性 Discharge Characteristics	最大瞬间放电电流 Max Instantaneous Discharge Current	220 A @20s
	截止电压 Cut_off Voltage	44.8 V
环境 Environment	充电温度范围 Charging Temperature Range	0 ~ 55 °C
	放电温度范围 Discharge Temperature Range	-10 ~ 60 °C
	存储温度范围 Storage Temperature	0 ~ 40 °C
其他 Other	IP	IP40
	材质 Material	Metal
	重量 Weight	$\approx$ 118 kg
	尺寸 Dimensions	W450×H880×D265 mm



LOW VOLTAGE STORAGE BATTERY
低压电池

-  超长循环，可达到8000+，使用8年以上；
Extra long cycle, can reach 8000+, Used $\geq$ 8 years;
-  支持多机并联；
support for multi-machine parallel connection；
-  移动性强，灵活部署；
Strong mobility, flexible deployment；
-  LCD,友好人机交互；
LCD,Smart human-computer interaction ；
-  磷酸铁锂电池体系，BMS全生命周期安全管控；
Lithium iron phosphate battery system, BMS safety control；

几何尺寸 Dimensions



参数 Parameter

基本参数 Basic Parameters	额定电压 Rated Voltage	51.2 V
	额定容量 Rated Capacity	628 Ah
	额定电量 Rated Power	32.154 kWh
	模组类型 Module Type	16S2P
	循环寿命 Cyclic Life	$\geq$ 8000 cycles @70%DOD
	自耗电 Self-Consumed Electricity	1%/M
	充电效率 Charging Efficiency	$\geq$ 97 %
	放电效率 Discharge Efficiency	$\geq$ 98 %
	通讯 Communication	CAN/RS485
充电特性 Charging Characteristics	建议充电电压 Recommended Charging Voltage	57.6 V
	建议充电电流 Recommended Charging Current	200 A
	充电截止电压 Charging Cut_off Voltage	58.4 V
	截止充电电流 Off_Charge Current	10 A
放电特性 Discharge Characteristics	建议放电电流 Recommended Discharge Current	250 A
	最大瞬间放电电流 Max Instantaneous Discharge Current	350 A @20s
	截止电压 Cut_off Voltage (V)	44.8 V
环境 Environment	充电温度范围 Charging Temperature Range	0 ~ 55 $^{\circ}$ C
	放电温度范围 Discharge Temperature Range	-10 ~ 60 $^{\circ}$ C
	存储温度范围 Storage Temperature	0 ~ 40 $^{\circ}$ C
其他 Other	IP	IP40
	材质 Material	Metal
	重量 Weight	$\approx$ 240 kg
	尺寸 Dimensions	W800×H715×D425 mm

LOW VOLTAGE STORAGE BATTERY
低压电池

超长循环, 可达到3000+, 使用5年以上;
Extra long cycle, reached 3000+, used ≥ 5 years;



支持多机并联;
support for multi-machine parallel connection;



模块化设计, 易扩容, 无需机架;
Modular design, easy to expand, without Rack



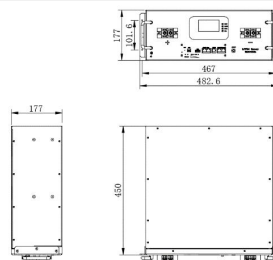
匹配市面多种逆变器;
Matching a variety of inverters;



采用磷酸铁锂电池体系, BMS全生命周期安全管控;
Lithium iron phosphate battery system, BMS safety control;



几何尺寸 Dimensions



参数 Parameter

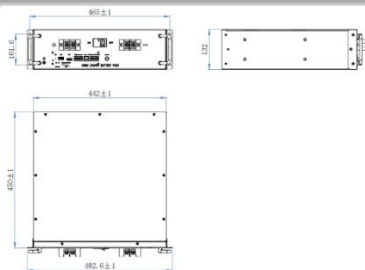
基本参数 Basic Parameters	额定电压 Rated Voltage	51.2 V
	额定容量 Rated Capacity	100 Ah
	额定电量 Rated Power	5.12 kWh
	模组类型 Module Type	100-16S1P
	循环寿命 Cyclic Life	≥ 3000 cycles @80%DOD
	自耗电 Self-Consumed Electricity	1%/M
	充电效率 Charging Efficiency	$\geq 97\%$
	放电效率 Discharge Efficiency	$\geq 98\%$
	通讯 Communication	CAN/RS485
充电特性 Charging Characteristics	建议充电电压 Recommended Charging Voltage	57.6 V
	建议充电电流 Recommended Charging Current	50 A
	充电截止电压 Charging Cut_off Voltage	58.4 V
	截止充电电流 Off_Charge Current	10 A
放电特性 Discharge Characteristics	建议放电电流 Recommended Discharge Current	100 A
	最大瞬间放电电流 Max Instantaneous Discharge Current	120 A @20s
	截止电压 Cut_off Voltage	44.8 V
环境 Environment	充电温度范围 Charging Temperature Range	0 ~ 55 °C
	放电温度范围 Discharge Temperature Range	-10 ~ 60 °C
	存储温度范围 Storage Temperature	0 ~ 40 °C
其他 Other	显示 Display	LCD
	IP	IP40
	材质 Material	Metal
	重量 Weight	47.5 Kg
	尺寸 Dimensions	W482.6×H177×D450 mm



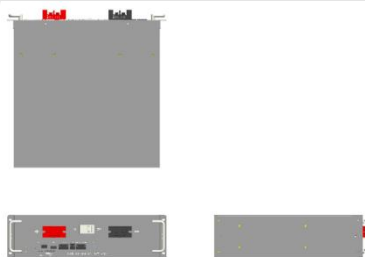
LOW VOLTAGE STORAGE BATTERY 低压电池

-  超长循环，可达到3000+，使用5年以上；
Extra long cycle, reached 3000+, used for more than 5 years;
-  支持多机并联；
support for multi-machine parallel connection;
-  模块化设计，易扩容，无需机架；
Modular design, easy to expand, without Rack
-  匹配市面多种逆变器；
Matching a variety of inverters;
-  采用磷酸铁锂电池体系，BMS全生命周期安全管控；
Lithium iron phosphate battery system, BMS safety control;

几何尺寸 Dimensions



结构 Structure



参数 Parameter

基本参数 Basic Parameters	额定电压 Rated Voltage	51.2 V
	额定容量 Rated Capacity	100 Ah
	额定电量 Rated Power	5.12 kWh
	模组类型 Module Type	100-16S1P
	循环寿命 Cyclic Life	≥3000 cycles @80%DOD
	自耗电 Self-Consumed Electricity	1%/M
	充电效率 Charging Efficiency	≥97 %
	放电效率 Discharge Efficiency	≥98 %
	通讯 Communication	CAN/RS485
充电特性 Charging Characteristics	建议充电电压 Recommended Charging Voltage	57.6 V
	建议充电电流 Recommended Charging Current	50 A
	充电截止电压 Charging Cut_off Voltage	58.4 V
	截止充电电流 Off_Charge Current	10 A
放电特性 Discharge Characteristics	建议放电电流 Recommended Discharge Current	100 A
	最大瞬间放电电流 Max Instantaneous Discharge Current	120 A @20s
	截止电压 Cut_off Voltage	44.8 V
环境 Environment	充电温度范围 Charging Temperature Range	0 ~ 55 °C
	放电温度范围 Discharge Temperature Range	-10 ~ 60 °C
	存储温度范围 Storage Temperature	0 ~ 40 °C
其他 Other	IP	IP40
	材质 Material	Metal
	重量 Weight	46 Kg
	尺寸 Dimensions	W482.6×H132×D450 mm



LOW VOLTAGE STORAGE BATTERY 低压电池



超长循环，可达到3000+，使用5年以上；
Extra long cycle, reached 3000+, used ≥ 5 years;



支持多机并联；
support for multi-machine parallel connection;



轻巧方便，超薄壁挂，灵活布置；
Lightweight & convenient, ultra-thin wall hanging, flexible layout;

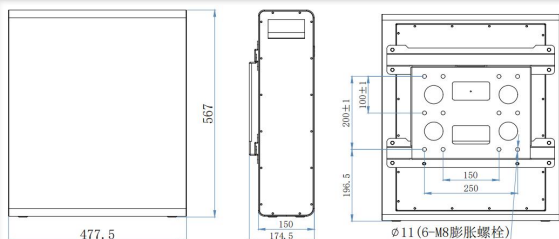


匹配市面多种逆变器；
Matching a variety of inverters;

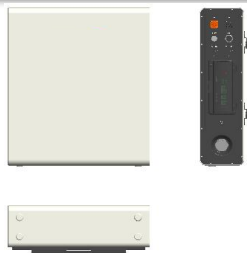


采用磷酸铁锂电池体系，BMS全生命周期安全管控；
Lithium iron phosphate battery system, BMS safety control;

几何尺寸 Dimensions



结构 Structure



参数 Parameter

基本参数 Basic Parameters	额定电压 Rated Voltage	51.2 V
	额定容量 Rated Capacity	100 A
	额定电量 Rated Power	5.12 kWh
	模组类型 Module Type	100-16S1P
	循环寿命 Cyclic Life	≥ 3000 cycles @80%DOD
	自耗电 Self-Consumed Electricity	1%/M
	充电效率 Charging Efficiency	$\geq 97\%$
	放电效率 Discharge Efficiency	$\geq 98\%$
	通讯 Communication	CAN/RS485
	建议充电电压 Recommended Charging Voltage	57.6 V
充电特性 Charging Characteristics	建议充电电流 Recommended Charging Current	50 A
	充电截止电压 Charging Cut_off Voltage	58.4 V
	截止充电电流 Off_Charge Current	10 A
放电特性 Discharge Characteristics	建议放电电流 Recommended Discharge Current	100 A
	最大瞬间放电电流 Max Instantaneous Discharge Current	120 A @20s
	截止电压 Cut_off Voltage	44.8 V
环境 Environment	充电温度范围 Charging Temperature Range	0 ~ 55 °C
	放电温度范围 Discharge Temperature Range	-10 ~ 60 °C
	存储温度范围 Storage Temperature	0 ~ 40 °C
其他 Other	IP	IP40
	材质 Material	Metal
	重量 Weight	45 kg
	尺寸 Dimensions	W477.5×H567×D150 mm



LOW VOLTAGE STORAGE BATTERY 低压电池



超长循环，可达到3000+，使用5年以上；
Extra long cycle, reached 3000+, used ≥ 5 years;



支持多机并联；
support for multi-machine parallel connection;



轻巧方便，超薄壁挂，灵活布置；
Lightweight & convenient, ultra-thin wall hanging, flexible layout;

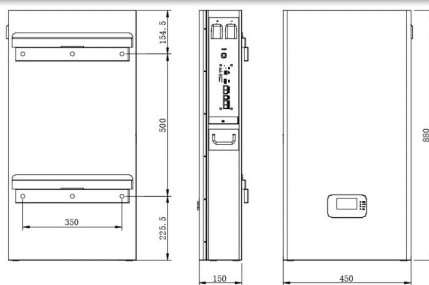


匹配市面多种逆变器；
Matching a variety of inverters;



采用磷酸铁锂电池体系，BMS全生命周期安全管控；
Lithium iron phosphate battery system, BMS safety control;

几何尺寸 Dimensions



参数 Parameter

基本参数 Basic Parameters	额定电压 Rated Voltage	51.2 V
	额定容量 Rated Capacity	200 Ah
	额定电量 Rated Power	5.12 kWh
	模组类型 Module Type	100~16S2P
	循环寿命 Cyclic Life	≥ 3000 cycles @80%DOD
	自耗电 Self-Consumed Electricity	1%/M
	充电效率 Charging Efficiency	$\geq 97\%$
	放电效率 Discharge Efficiency	$\geq 98\%$
	通讯 Communication	CAN/RS485
	建议充电电压 Recommended Charging Voltage	57.6 V
充电特性 Charging Characteristics	建议充电电流 Recommended Charging Current	100 A
	充电截止电压 Charging Cut_off Voltage	58.4 V
	截止充电电流 Off_Charge Current	10 A
	建议放电电流 Recommended Discharge Current	100 A
放电特性 Discharge Characteristics	最大瞬间放电电流 Max Instantaneous Discharge Current	120 A @20s
	截止电压 Cut_off Voltage	44.8 V
	充电温度范围 Charging Temperature Range	0~55 °C
环境 Environment	放电温度范围 Discharge Temperature Range	-10~60 °C
	存储温度范围 Storage Temperature	0~40 °C
其他 Other	IP	IP40
	材质 Material	Metal
	重量 Weight	85 Kg
	尺寸 Dimensions	W450×H880×D150 mm



MOBILE POWER 移动电源



超长循环，可达到8000+，使用8年以上；
Extra long cycle, reached 8000+, used ≥ 8 years;



轻巧方便，灵活布置；
Lightweight & convenient, flexible arrangement;



多种输出接口，纯正正弦波，匹配多种电器负载；
multiple output interfaces, pure sine waves, matching multiple electrical loads;

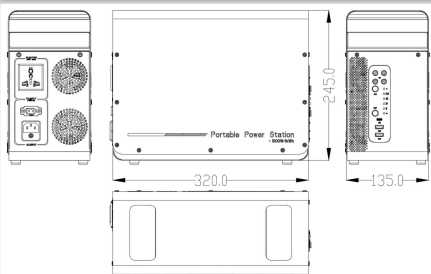


超大电量，放心畅快使用；
Extra large power, use with confidence;

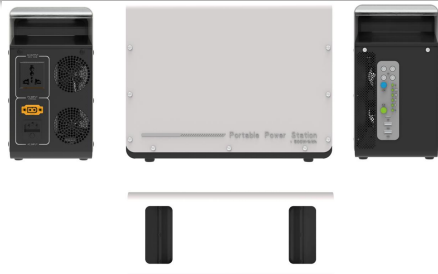


采用磷酸铁锂电池体系；
Lithium iron phosphate battery system;

几何尺寸 Dimensions



结构 Structure



输出 Output Specifications

AC Output	纯正正弦波 Pure Sine Wave
	500 W
	~230 Vac (50/60 Hz)
UPS 切换时间 UPS Transfer Time	≤ 20 ms
USB-A (x2 Output)	5V 3A (恒压 Constant voltage), 最大功率 15W/路 Max 15 W/Each
USB-C (x1 Output)	20 W
DC5521 (x4 Output)	12V $\pm$ 3% Max 4A
并机 Parallel	Na

电池 Battery

额定电量 Rated Power	1004.8 Wh
电芯材料 Cell Material	LFP (磷酸铁锂)
循环寿命 Cyclic life	8000次循环后, 剩余容量 $\geq 70\%$ After 8000 cycles, remaining capacity $\geq 70\%$
保护类型 Protection Type	高温保护、低温保护、过放保护、过充保护、 过载保护、短路保护、过流保护 High temperature, low temperature, over- discharge, overcharge, overload, short circuit, overcurrent protection

输入 Input Specifications

PV Voltage Range	11 ~ 55 V
PV 电流 Current	Max 10A
AC 功率 Input Power	500 W
AC 电压 Input voltage	220~240 Vac 50/60Hz
最佳使用环境温度 Optimal ambient temperature	20°C~30 °C
放电环境温度 Discharge ambient temperature	-10~60 °C
充电环境温度 Charging ambient temperature	0~50 °C
存储环境温度 Storage ambient temperature	-20~45 °C (20~30 °C Suitable)

基本参数 Parameter

显示 Display	LED
材质 Material	Metal
冷却 Cool	风冷 Air-cool
开关 Switch	按键式 Button
IP	IP20
净重 Net Weight	≈ 10.5 Kg
8充放电效率	84%



MOBILE POWER 移动电源



超长循环，可达到8000+，使用8年以上；
Extra long cycle, reached 8000+, used ≥ 8 years;



轻巧方便，灵活布置；
Lightweight & convenient, flexible arrangement;



多种输出接口，纯正弦波，匹配多种电器负载；
multiple output interfaces, pure sine waves, matching multiple electrical loads;

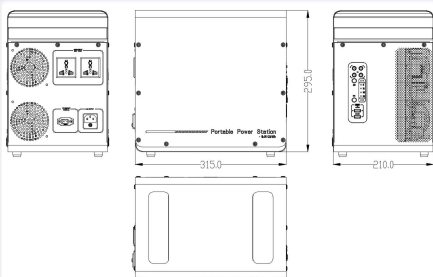


超大电量，放心畅快使用；
Extra large power, use with confidence;



采用磷酸铁锂电池体系；
Lithium iron phosphate battery system;

几何尺寸 Dimensions



结构 Structure



输出 Output Specifications

AC Output	纯正弦波 Pure Sine Wave
	1000 W
	230 Vac (50/60 Hz)
UPS 切换时间 UPS Transfer Time	≤ 20 ms
USB-A (×2 Output)	5V 3A (恒压 Constant voltage)，最大功率15W/路 Max 15W/Each
USB-C (×1 Output)	20 W
DC5521 (×4 Output)	12V $\pm 3\%$ Max 4A
并机 Parallel	Na

电池 Battery

额定电量 Rated Power	2009 Wh
电芯材料 Cell Material	LFP (磷酸铁锂)
循环寿命 Cyclic life	8000次循环后, 剩余容量 $\geq 70\%$ After 8000 cycles, remaining capacity $\geq 70\%$
保护类型 Protection Type	高温保护、低温保护、过放保护、过充保护、 过载保护、短路保护、过流保护 High temperature, low temperature, over-discharge, overcharge, overload, short circuit, overcurrent protection

输入 Input Specifications

PV Voltage Range	11 - 55 V
PV 电流 Current	Max 15A
AC 功率 Input Power	1000 W
AC 电压 Input voltage	220~240 Vac 50/60 Hz
最佳使用环境温度 Optimal ambient temperature	20~30 °C
放电环境温度 Discharge ambient temperature	-10~60 °C
充电环境温度 Charging ambient temperature	0~50 °C
存储环境温度 Storage ambient temperature	-20~45 °C (20~30 °C Suitable)

基本参数 Parameter

显示 Display	LED
材质 Material	Metal
冷却 Cool	风冷 Air-cool
开关 Switch	按键式 Button
IP	IP20
净重 Net Weight	≈ 18.5 Kg
充放电效率	84%

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