



产品手册

PRODUCT CATALOG

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INNOVATIVE TECHNOLOGY



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目录

太阳能逆变器

SOLAR INVERTER

■ 简介 Introduction

光伏混网逆变器（又称混合逆变器）是集成光伏逆变、储能双向变流、电网交互的一体化设备，核心是智能协调光伏、电池与市电，实现自发自用、余电存储 / 上网、缺电补能及离网备用，是光储系统的“能量枢纽”。

A PV Hybrid Inverter (also called a hybrid inverter) is an integrated device combining PV inversion, bidirectional energy storage conversion, and grid interaction. Its core function is to intelligently coordinate PV generation, battery storage, and grid power, enabling self-consumption, surplus energy storage/feed-in, grid-supplemented charging, and off-grid backup. It serves as the “energy hub” of a PV-storage system.

■ 产品选型 Product selection

一、混网逆变器系列 Hybrid Inverter Series

单相混网 (SHI-2KW, 3KW) 12V

Single Phase Hybrid (SHI-2KW,3KW) 12V

单相混网 (SHI-3.5KW, 4.2KW) 24V

Single Phase Hybrid (SHI-3.5KW, 4.2KW) 24V

单相混网 (SHI-6.2KW, 8.2KW, 10.2KW, 11KW, 12KW) 48V

Single Phase Hybrid (SHI-6.2KW, 8.2KW, 10.2KW, 11KW) 48V

单相混网 (SHI-3KW, 6KW) 48V-IP65-ECO

Single Phase Hybrid (SHI-3KW, 6KW) 48V-IP65-ECO

单相混网 (SHI-6KW, 16KW) 48V-IP65-EU

Single Phase Hybrid (SHI-6KW,16KW) 48V-IP65-EU

二、美规单相混网系列 US Standard Single-Phase Hybrid Series

美规单相混网 (USI-3KW, 3.6KW) 24V

US Standard Single-Phase Hybrid (USI-3KW, 3.6KW) 24V

美规单相混网 (USI-3KW, 3.6KW, 5.5KW) 48V

US Standard Single-Phase Hybrid (USI-3KW, 3.6KW, 5.5KW) 48V

三、美规裂相混网系列 US Standard Split-Phase Hybrid Series

美规裂相混网 (GES-3KW, 3.6KW) 24V

US-Standard Split-Phase Hybrid (GES-3KW, 3.6KW) 24V

美规裂相混网 (GES-3.6KW, 5.5KW, 6.2KW, 8.5KW, 10.2KW, 12KW) 48V

US-Standard Split-Phase Hybrid (GES-3.6KW, 5.5KW, 6.2KW, 8.5KW, 10.2KW, 12KW) 48V

四、锂电池系列 Lithium-Ion Battery Series

家储落地式 (LFP-51.2V-100AH, 200AH, 280AH, 300AH, 314AH)

Floor-Standing Home Energy Storage (LFP-51.2V-100AH, 200AH, 280AH, 300AH, 314AH)

机架式 (LFP-51.2V-100AH, 120AH, 200AH)

Rack-Mounted (LFP-51.2V-100AH, 120AH, 200AH)

家储壁挂式 (LFP-25.6V-100AH, 200AH, 300AH)

Wall-Mounted Home Energy Storage (LFP-25.6V-100AH, 200AH, 300AH)

铅改锂电池 (LFP-12.8V-50AH, 100AH, 200AH)

Lead-Acid to Lithium Battery Conversion (LFP-12.8V-50AH, 100AH, 200AH)

SHI

混网逆变器系列

Hybrid Inverter Series

产品特点

Product Features

并网+离网双模式自由切换

Free Switching Between Grid-Tied + Off-Grid Dual Modes

光伏+储能一体化设计

Integrated PV + Energy Storage Design

高效MPPT功率追踪

High-Efficiency MPPT Power Tracking

纯正弦波重载输出

Pure Sine Wave Heavy-Load Output

多模式智能能源调度

Multi-Mode Intelligent Energy Dispatch

兼容多种储能电池

Compatible with Multiple Energy Storage Batteries

多重安全防护更可靠

Multi-Layer Safety Protection for Enhanced Reliability

静音高效，安装便捷

Quiet, Efficient, and Easy Installation

远程智能监控运维

Remote Intelligent Monitoring and Maintenance

■ 单相混网（SHI-2KW, 3KW）12V
SINGLE-PHASE HYBRID (SHI-2KW, 3KW) 12V

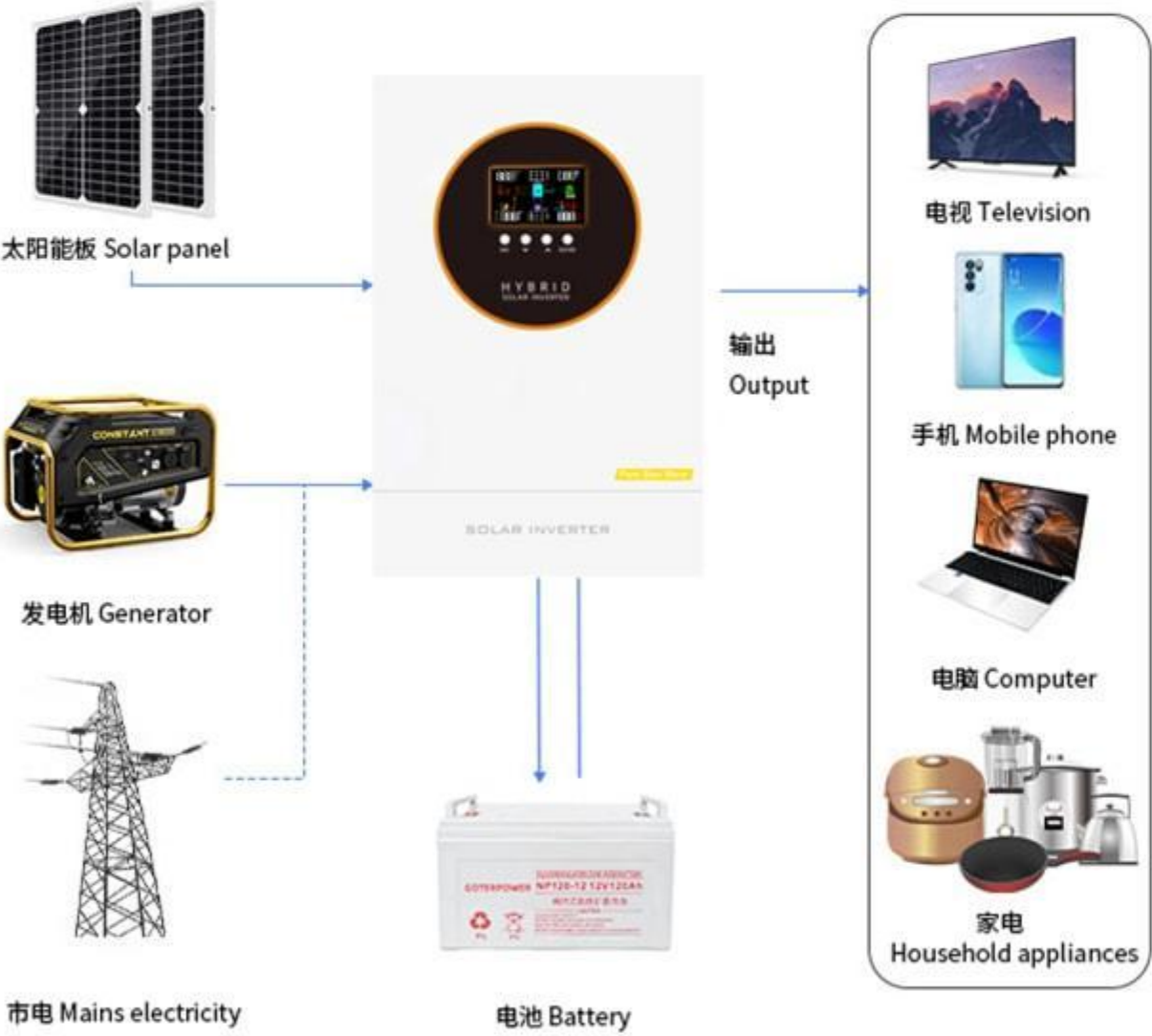


产品特性:

Product features:

- ▶ 纯正弦波太阳能逆变器(并网/离网)
Pure Sine Wave Solar Inverter (Grid-Tied/Off-Grid)
- ▶ 输出功率因数1.0
Output Power Factor: 1.0
- ▶ MPPT电压输入范围:60V~500VDC
MPPT Voltage Input Range: 60V~500V DC
- ▶ 可无电池运行
Battery-Free Operation Supported
- ▶ 内置锂电池自动激活
Built-in Lithium Battery Auto-Activation
- ▶ 支持IOS和ANDROID系统的WIFI与GPRS功能
WiFi & GPRS Support for iOS and Android Systems

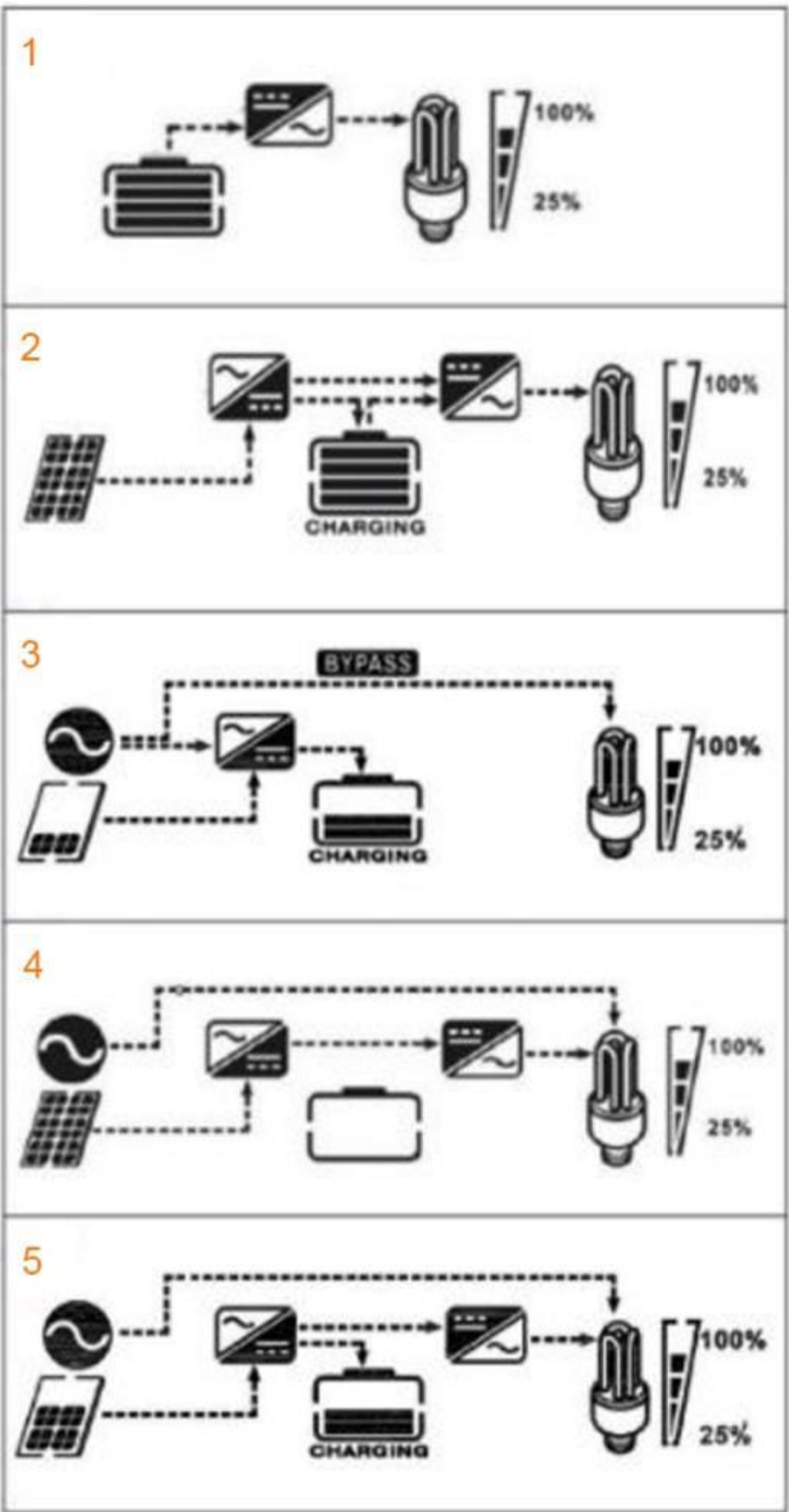
★ 混合系统 Hybrid System



★ 产品优点 Product Advantages



★ 典型的工作模式 Typical working mode



■ 产品参数
Product parameters

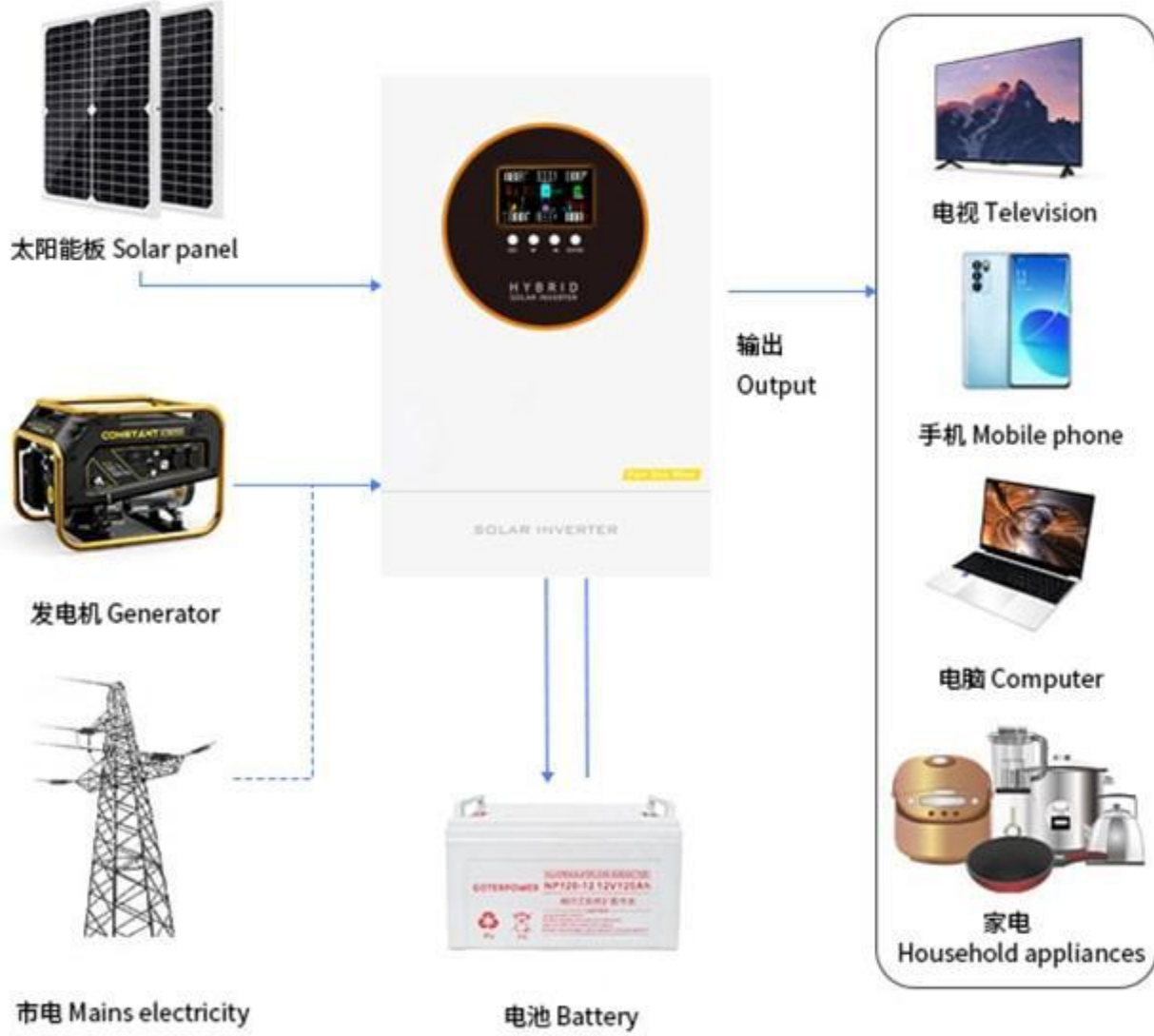
产品型号 Product model	SHI-2KW-12V	SHI-3KW-12V
额定输出功率 Maximum PV open-circuit voltage	2KW	3KW
输出频率 MPPT operating voltage range	50~60Hz	50~60Hz
峰值效率 Starting voltage	>89%	>92%
过载保护 Overload Protection	5S@>150%;10S@>110%;2min@>100%	
浪涌容量 Surge Capacity	2倍额定功率持续5秒, 2*Rated Power for 5Seconds	
标称直流输入电压 Nominal DC Input Voltage	12VDC	12VDC
冷启动电压 Cold Start Voltage	11.5V	11.5V
市电充电模式/充电算法 Grid Charging Mode/Charging Algorithm	三步法 3-Step	三步法 3-Step
交流充电电流(最大值) AC Charging Current (Maximum)	100Amp(@Vi/p=230Vac)	80Amp(@Vi/p=230Vac)
充电电压(注水电池) Charging Voltage(Flooded Battery)	14.7V	14.7V
充电电压(AGM/凝胶电池) Charging Voltage(AGM/Gel Battery)	14.1V	14.7V
浮充电压 Float Charging Voltage	13.5V	13.5V
最大光伏阵列功率 Maximum Photovoltaic Array Power	4500W	5500W
额定光伏电压 Rated Photovoltaic Voltage	240VDC	240VDC
光伏阵列MPPT电压范围 PV Array MPPT Voltage Range	60-450VDC	60-450VDC
最大光伏阵列开路电压 Maximum PV Array Open-Circuit Voltage	500VDC	500VDC
PV最大充电电流 PV Maximum Charging Current	120AMP	120AMP
并网额定输出电压 Grid-Tied Rated Output Voltage	220/230/240VAC	
并网电压范围 Grid-Tied Voltage Range	195~253VAC	
额定输出电流 Rated Output Current	8.7A	13A
功率因数范围 Power Factor Range	>0.99	
最大转换效率 Maximum Conversion Efficiency	97%	
满载 Full Load	2000W	3000W
最大主负载 Maximum Primary Load	2000W	3000W
最大第二负载 Maximum Secondary Load	最大主负载/3, Maximum Main Load/3	
工作温度范围 Operating Temperature Range	-10° C to 50° C	
湿度 Humidity	-15° C to 60° C	
产品重量 Product weight	6.7 kg	7 kg
宽*深*高 W*D*H (mm)	260*108*350	260*108*350

■ 单相混网（SHI-3.5KW, 4.2KW）24V

SINGLE-PHASE HYBRID (SHI-3.5KW, 4.2KW) 24V



★ 混合系统 Hybrid System



★ 产品优点 Product Advantages

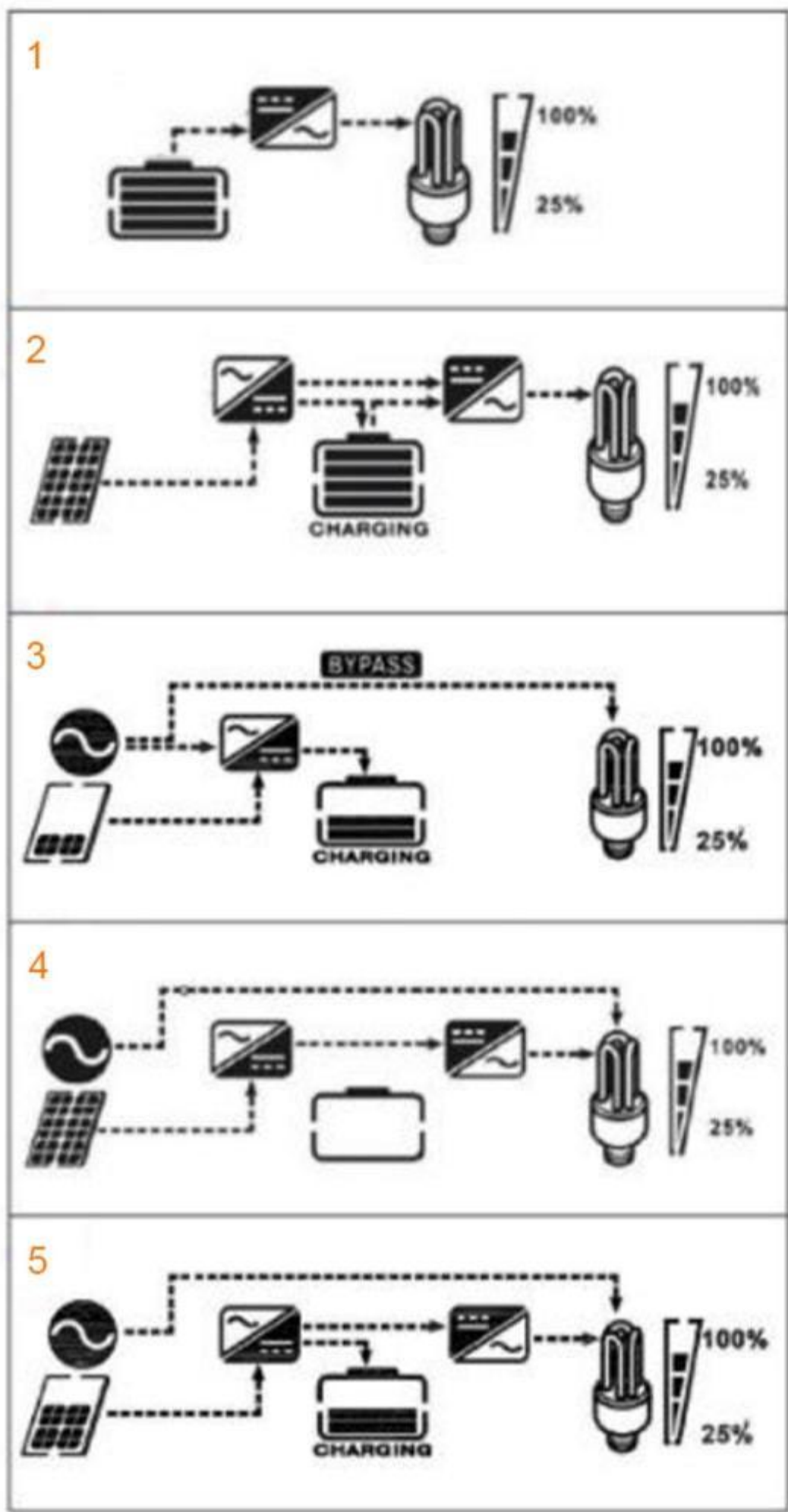


产品特性:

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- ▶ 纯正弦波太阳能逆变器(并网/离网)
Pure Sine Wave Solar Inverter (Grid-Tied/Off-Grid)
- ▶ 输出功率因数1.0
Output Power Factor: 1.0
- ▶ MPPT电压输入范围:60V~500VDC
MPPT Voltage Input Range: 60V~500V DC
- ▶ 可无电池运行
Battery-Free Operation Supported
- ▶ 内置锂电池自动激活
Built-in Lithium Battery Auto-Activation
- ▶ 支持IOS和ANDROID系统的WIFI与GPRS功能
WiFi & GPRS Support for iOS and Android Systems

★ 典型的工作模式 Typical working mode



■ 产品参数

Product parameters

产品型号 Product model	SHI-3.5KW-24V	SHI-4.2KW-24V
额定输出功率 Maximum PV open-circuit voltage	3.5KW	4.2KW
输出频率 MPPT operating voltage range	50~60Hz	50~60Hz
峰值效率 Starting voltage	>92%	>92%
过载保护 Overload Protection	5S@>150%;10S@>110%;2min@>100%	
浪涌容量 Surge Capacity	2倍额定功率持续5秒, 2*Rated Power for 5Seconds	
标称直流输入电压 Nominal DC Input Voltage	24VDC	24VDC
冷启动电压 Cold Start Voltage	23V	23V
市电充电模式/充电算法 Grid Charging Mode/Charging Algorithm	三步法 3-Step	三步法 3-Step
交流充电电流(最大值) AC Charging Current (Maximum)	100Amp(@Vi/p=230Vac)	80Amp(@Vi/p=230Vac)
充电电压(注水电池) Charging Voltage(Flooded Battery)	29.2V	29.2V
充电电压(AGM/凝胶电池) Charging Voltage(AGM/Gel Battery)	28.2V	28.2V
浮充电压 Float Charging Voltage	27V	27V
最大光伏阵列功率 Maximum Photovoltaic Array Power	5500W	6300W
额定光伏电压 Rated Photovoltaic Voltage	240VDC	240VDC
光伏阵列MPPT电压范围 PV Array MPPT Voltage Range	60-450VDC	60-450VDC
最大光伏阵列开路电压 Maximum PV Array Open-Circuit Voltage	500VDC	500VDC
PV最大充电电流 PV Maximum Charging Current	100AMP	100AMP
并网额定输出电压 Grid-Tied Rated Output Voltage	220/230/240VAC	
并网电压范围 Grid-Tied Voltage Range	195~253VAC	
额定输出电流 Rated Output Current	13A	18A
功率因数范围 Power Factor Range	>0.99	
最大转换效率 Maximum Conversion Efficiency	97%	
满载 Full Load	3000W	4200W
最大主负载 Maximum Primary Load	3000W	4200W
最大第二负载 Maximum Secondary Load	最大主负载/3, Maximum Main Load/3	
工作温度范围 Operating Temperature Range	-10° C to 50° C	
湿度 Humidity	-15° C to 60° C	
产品重量 Product weight	8 kg	8.2 kg
宽*深*高 W*D*H (mm)	278*108*395	278*108*395

■ 单相混网（SHI-6.2KW, 8.2KW, 11KW）48V
SINGLE-PHASE HYBRID (SHI-6.2KW, 8.2KW, 11KW) 48V

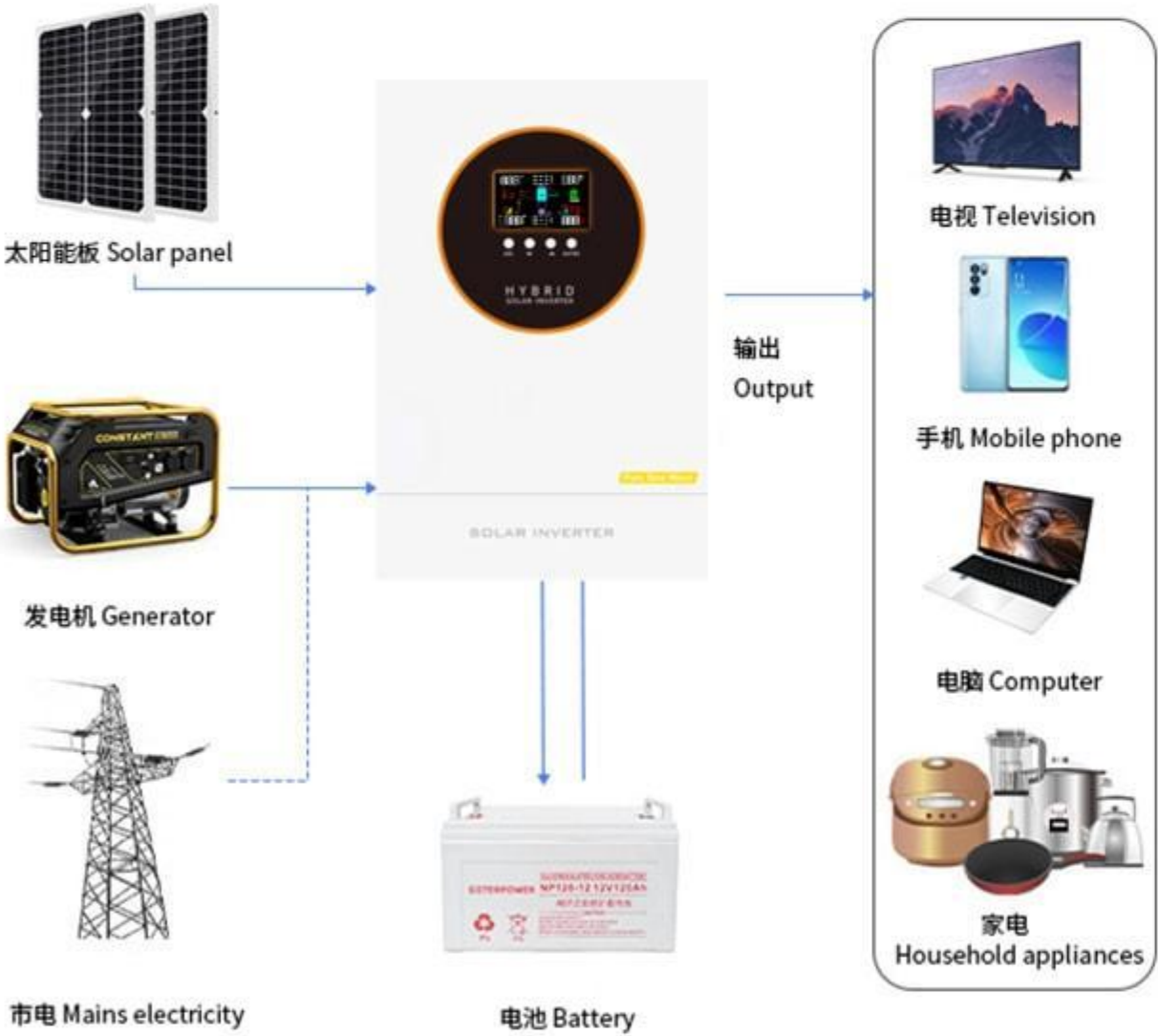


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MPPT Voltage Input Range: 60V~500V DC
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Battery-Free Operation Supported
- ▶ 内置锂电池自动激活
Built-in Lithium Battery Auto-Activation
- ▶ 支持IOS和ANDROID系统的WIFI与GPRS功能
WiFi & GPRS Support for iOS and Android Systems

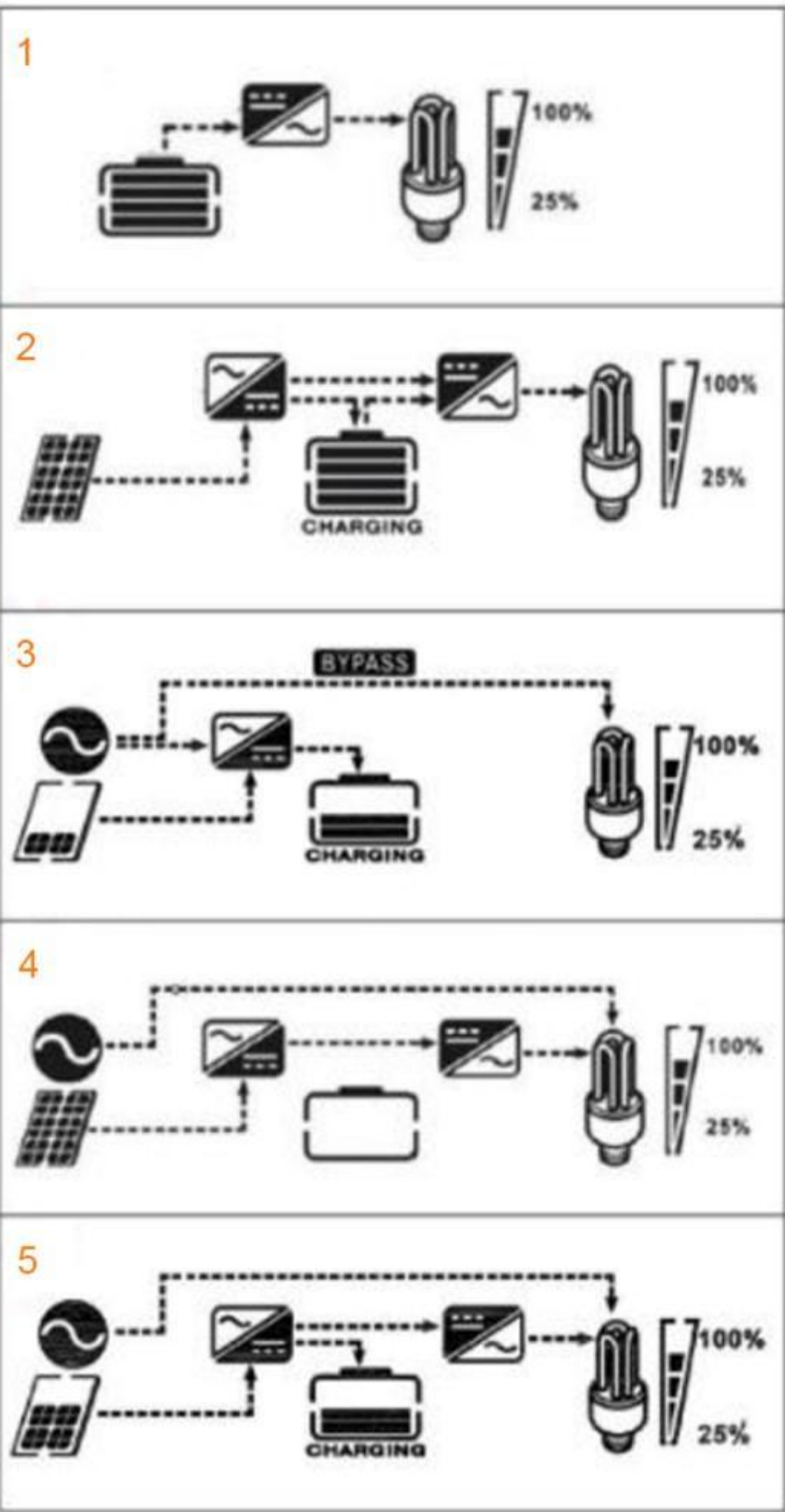
★ 混合系统 Hybrid System



★ 产品优点 Product Advantages



★ 典型的工作模式 Typical working mode



■ 产品参数
Product parameters

产品型号 Product model	SHI-6.2KW-48V	SHI-8.2KW-48V	SHI-11KW-48V
额定输出功率 Maximum PV open-circuit voltage	6.2KW	8.2KW	11KW
输出频率 MPPT operating voltage range	50~60Hz	50~60Hz	50~60Hz
峰值效率 Starting voltage	>92%	>94%	>94%
过载保护 Overload Protection	5S@>150%;10S@>110%;2min@>100%		
浪涌容量 Surge Capacity	2倍额定功率持续5秒, 2*Rated Power for 5Seconds		
标称直流输入电压 Nominal DC Input Voltage	48VDC	48VDC	48VDC
冷启动电压 Cold Start Voltage	46V	46V	46V
市电充电模式/充电算法 Grid Charging Mode/Charging Algorithm	三步法 3-Step	三步法 3-Step	三步法 3-Step
交流充电电流(最大值) AC Charging Current (Maximum)	80Amp(@Vi/p=230Vac)	100Amp(@Vi/p=230Vac)	100Amp(@Vi/p=230Vac)
充电电压(注水电池) Charging Voltage(Flooded Battery)	58.4V	58.4V	58.4V
充电电压(AGM/凝胶电池) Charging Voltage(AGM/Gel Battery)	56.4V	56.4V	56.4V
浮充电压 Float Charging Voltage	54V	54V	54V
最大光伏阵列功率 Maximum Photovoltaic Array Power	6500W	6500W*2	6500W*2
额定光伏电压 Rated Photovoltaic Voltage	240VDC	240VDC	240VDC
光伏阵列MPPT电压范围 PV Array MPPT Voltage Range	60-450VDC	60-450VDC	60-450VDC
最大光伏阵列开路电压 Maximum PV Array Open-Circuit Voltage	500VDC	500VDC	500VDC
PV最大充电电流 PV Maximum Charging Current	120AMP	140AMP	160AMP
并网额定输出电压 Grid-Tied Rated Output Voltage		220/230/240VAC	
并网电压范围 Grid-Tied Voltage Range		195~253VAC	
额定输出电流 Rated Output Current	26.6A	35.6A	47.8A
功率因数范围 Power Factor Range		>0.99	
最大转换效率 Maximum Conversion Efficiency		97%	
满载 Full Load	6200W	8200W	1100W
最大主负载 Maximum Primary Load	6200W	8200W	1100W
最大第二负载 Maximum Secondary Load		最大主负载/3, Maximum Main Load/3	
工作温度范围 Operating Temperature Range		-10° C to 50° C	
湿度 Humidity		-15° C to 60° C	
产品重量 Product weight	8.6 kg	10.3 kg	18 kg
宽*深*高 W*D*H (mm)	278*108*395	335*110*445	500*165*620

■ 单相混网（SHI-10.2KW, 12KW）48V

SINGLE-PHASE HYBRID (SHI-10.2KW, 12KW) 48V



★ 混合系统 Hybrid System



★ 产品优点 Product Advantages

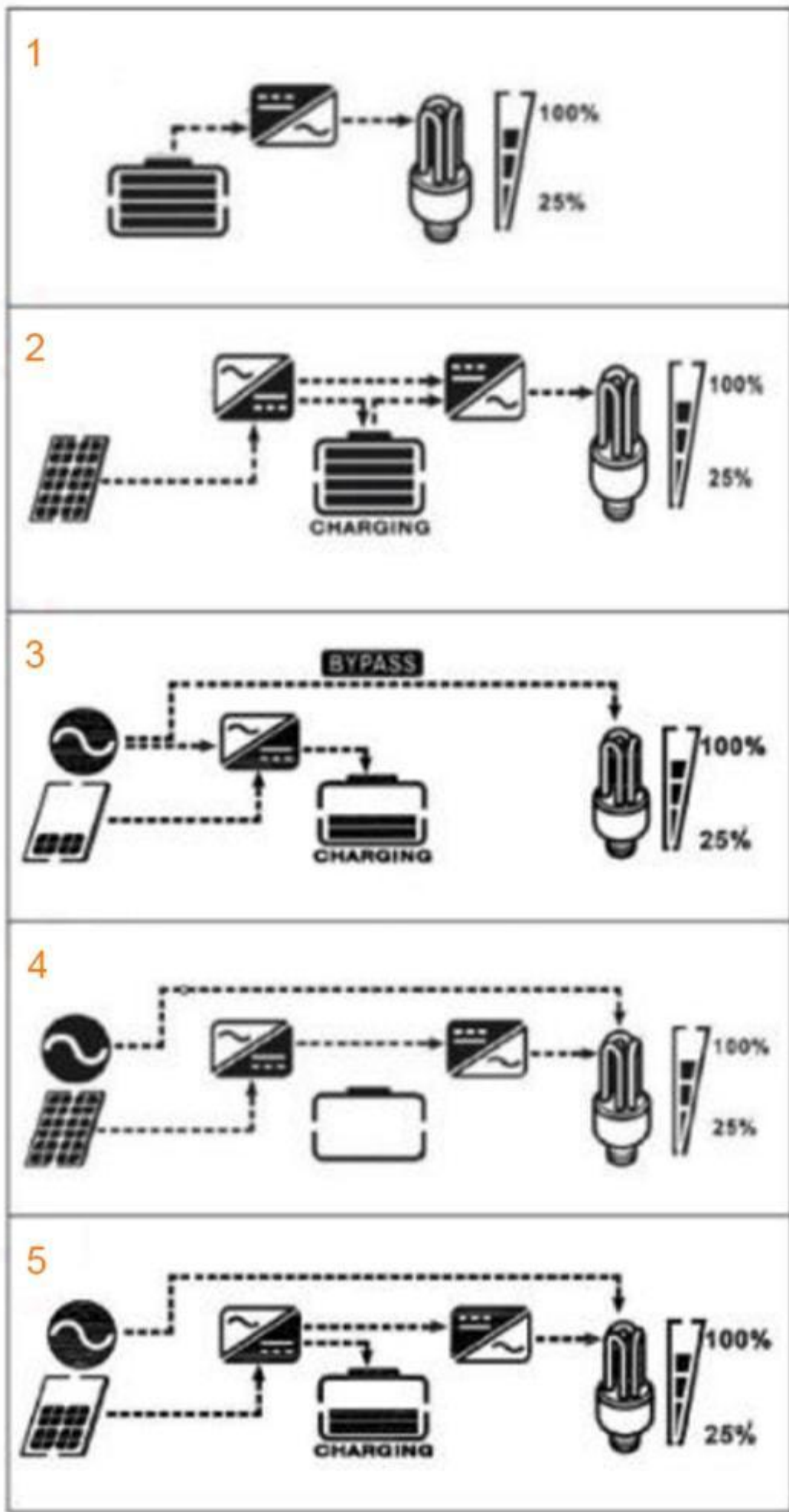


产品特性:

Product features:

- ▶ 纯正弦波太阳能逆变器(并网/离网)
Pure Sine Wave Solar Inverter (Grid-Tied/Off-Grid)
- ▶ 输出功率因数1.0
Output Power Factor: 1.0
- ▶ MPPT电压输入范围:60V~500VDC
MPPT Voltage Input Range: 60V~500V DC
- ▶ 可无电池运行
Battery-Free Operation Supported
- ▶ 内置锂电池自动激活
Built-in Lithium Battery Auto-Activation
- ▶ 支持IOS和ANDROID系统的WIFI与GPRS功能
WiFi & GPRS Support for iOS and Android Systems

★ 典型的工作模式 Typical working mode



■ 产品参数

Product parameters

产品型号 Product model	SHI-10.2KW-48V	SHI-12KW-48V
最大光伏阵列功率 Maximum PV Array Power	6600W*2	6600W*2
最大光伏阵列开路电压 Maximum PV Array Open-Circuit Voltage	550VDC	
启动电压 Start-up Voltage	100VDC	
MPPT工作电压范围 MPPT Operating Voltage Range	120-450VDC	
额定输入电压 Rated Input Voltage	360VDC	
最大输入电流MPPT Maximum Input Current per MPPT	18A*2	22.5A*2
最大MPPT效率 Maximum MPPT Efficiency	99%	
电池标称电压 Battery Nominal Voltage	48V	
电池电压范围 Battery Voltage Range	41-58V	
最大交流充电电流 Maximum AC Charging Current	100A	
PV最大充电电流 PV Maximum Charging Current	160A	
连续放电电流 Continuous Discharge Current	210A	54V 230A
频率 Frequency	50/60Hz (Auto following)	
标称电压 Nominal Voltage	230VDC	
电压范围 Voltage Range	170-275VAC	
最大输入电流 Maximum Input Current	50A	60A
交流输出额定电压 AC Rated Output Voltage	220/230VAC±5%	
输出电压波形 Output Voltage Waveform	Pure Sine Wave	
最大负载切断电压(电池模式) Maximum Load Cut-off Voltage (Battery Mode)	52V DC (adjustable)	
最大负载返回电压(电池模式) Maximum Load Return Voltage (Battery Mode)	44.3A	54V DC (adjustable) 52.1A
电池到逆变器的效率(峰值) PV-to-Inverter Efficiency (Peak)	97.0%	
光伏到逆变器的效率(峰值) Battery-to-Inverter Efficiency (Peak)	94.0%	
满载 Full Load	10200W	12000W
最大主负载 Maximum Primary Load	10200W	12000W
最大第二负载 Maximum Secondary Load	10200W	12000W
工作温度范围 Operating Temperature Range	-10° C to 50° C	
湿度 Humidity	0~95%	
产品重量 Product weight	11.5 kg	13 kg
宽*深*高 W*D*H (mm)	360*120*500	360*120*500

■ 单相混网 (SHI-3KW, 6KW) 48V-IP65-ECO

SINGLE-PHASE HYBRID (SHI-3KW, 6KW) 48V -IP65- ECO

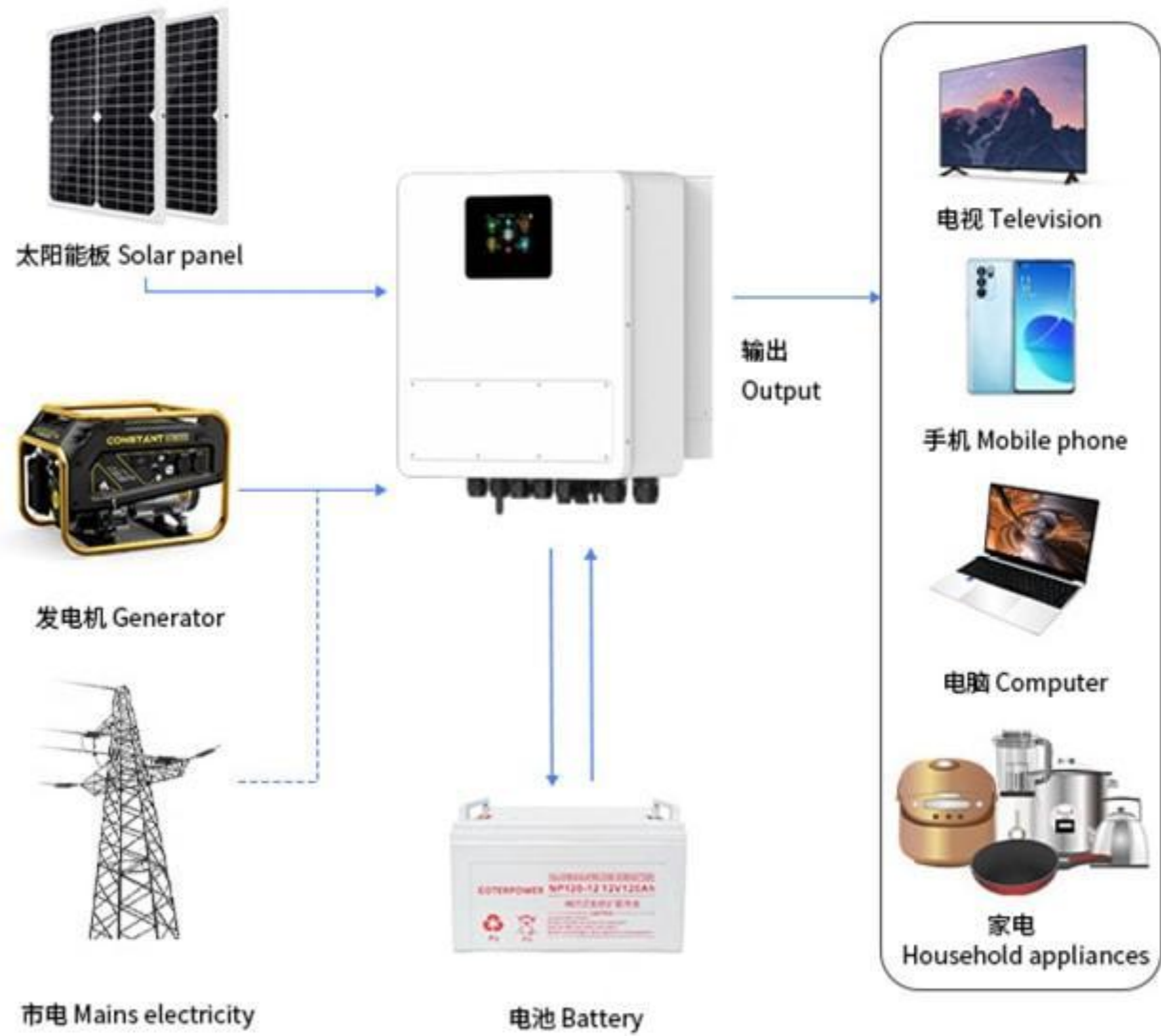


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Product features:

- 纯正弦波太阳能逆变器(并网/离网)
Pure Sine Wave Solar Inverter (Grid-Tied/Off-Grid)
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Output Power Factor: 1.0
- MPPT电压输入范围:60V~500VDC
MPPT Voltage Input Range: 60V~500V DC
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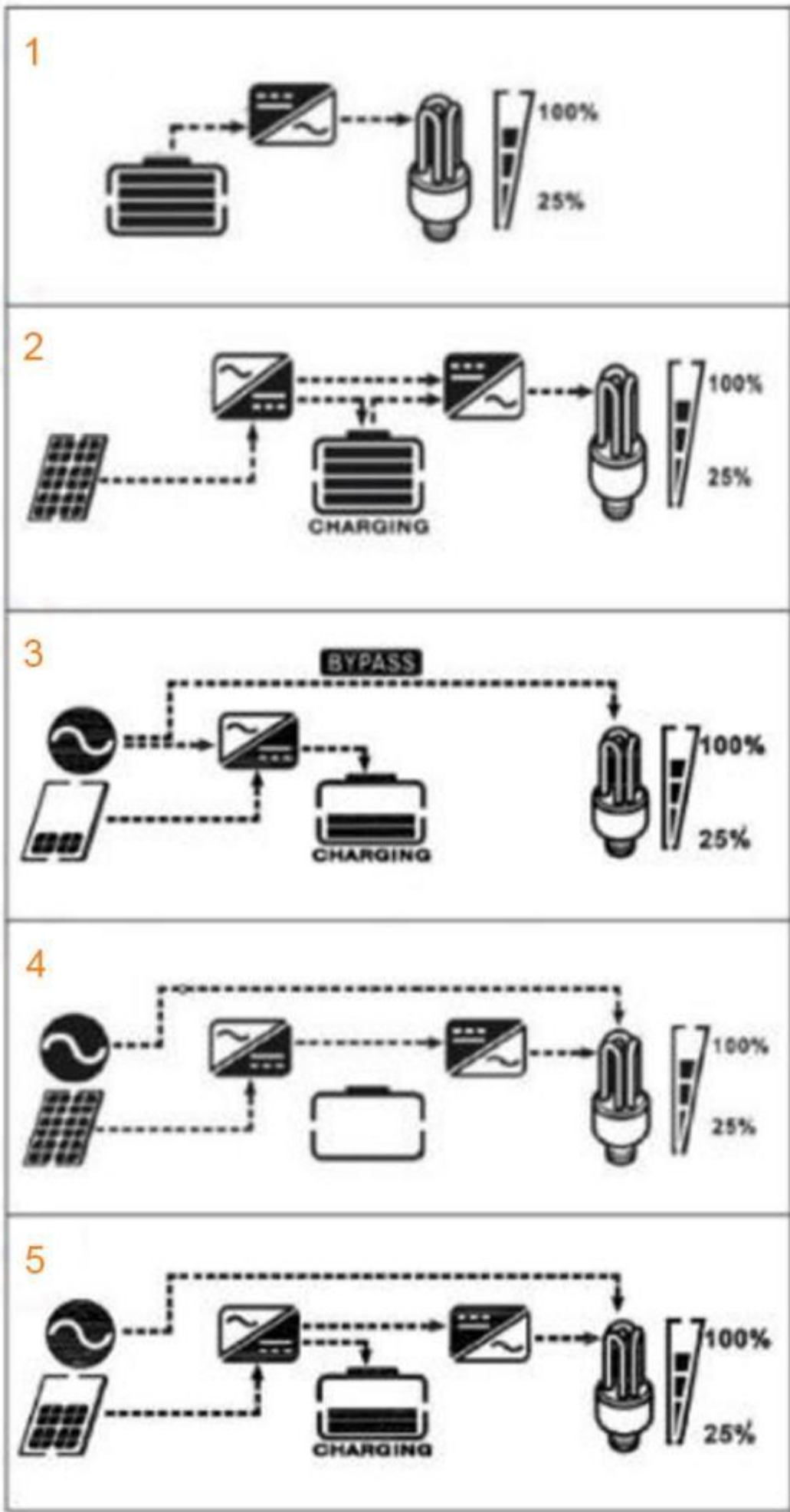
★ 混合系统 Hybrid System



★ 产品优点 Product Advantages



★ 典型的工作模式 Typical working mode



■ 产品参数

Product parameters

产品型号 Product model	SHI-3KW-48V-IP65-ECO	SHI-6KW-48V-IP65-ECO
最大光伏输入功率 Maximum Photovoltaic Input Power	4500W	4500W*2
额定输出功率 Rated Output Power	3000W	6000W*2
最大直流电压 Maximum DC Voltage	500VDC	520VDC
启动电压/初始馈电电压 Start-up Voltage / Initial Feed-in Voltage	90VDC/120VDC	
MPPT工作电压范围 MPPT Operating Voltage Range	60-450VDC	50-500VDC
最大输入电流 Maximum Input Current	1/18A	2/18A
电网额定输出电压 Rated Output Voltage	220/230/240VAC	
电网输出电压范围 Output Voltage Range	184-264.5 VAC or 195.5-253 VAC or 184-264.4 VAC(可选)	
电网额定输出电流 Rated Output Current	13A	26.1A
交流启动电压/自动重启电压 AC Start-up Voltage / Auto-restart Voltage	120-140 VAC/180 VAC	
可接受输入电压范围 Acceptable Input Voltage Range	90-280VAC or 170-280 VAC	
最大交流输入电流 Maximum AC Input Current	16A	40A
额定输出电压 Battery Output Voltage	220/230/240VAC	
转换效率(直流→交流) Conversion Efficiency (DC to AC)	93%	
标称直流电压 Nominal DC Voltage	24VDC	48VDC
最大太阳能充电电流 Maximum Solar Charging Current	100AMP	135AMP
交流最大充电电流 Maximum AC Charging Current	100AMP	135AMP
PV最大充电电流 PV Maximum Charging Current	100AMP	135AMP
并联功能 Parallel Function	/	最多可并联6台,Maximum 6 Units in Parallel
通信接口 Communication Interface	RS232/RS485/Wi-Fi	RS485/CAN/Wi-Fi/干接点
工作湿度范围 Operating Humidity Range	5%~95%(Non-condensing)	
防护等级 Ingress Protection (IP) Rating	IP65	
工作温度范围 Operating Temperature Range	-10℃~50℃	
存储温度范围 Storage Temperature Range	-15℃~60℃	
宽×深×高(mm) Width × Depth × Height (mm)	353X160X451	444*220*471
净重(kg) Net Weight (kg)	12.3	18.5

■ 单相混网（SHI-6KW, 16KW）48V-IP65-EU

SINGLE-PHASE HYBRID (SHI-6KW, 16KW) 48V -IP65- EU



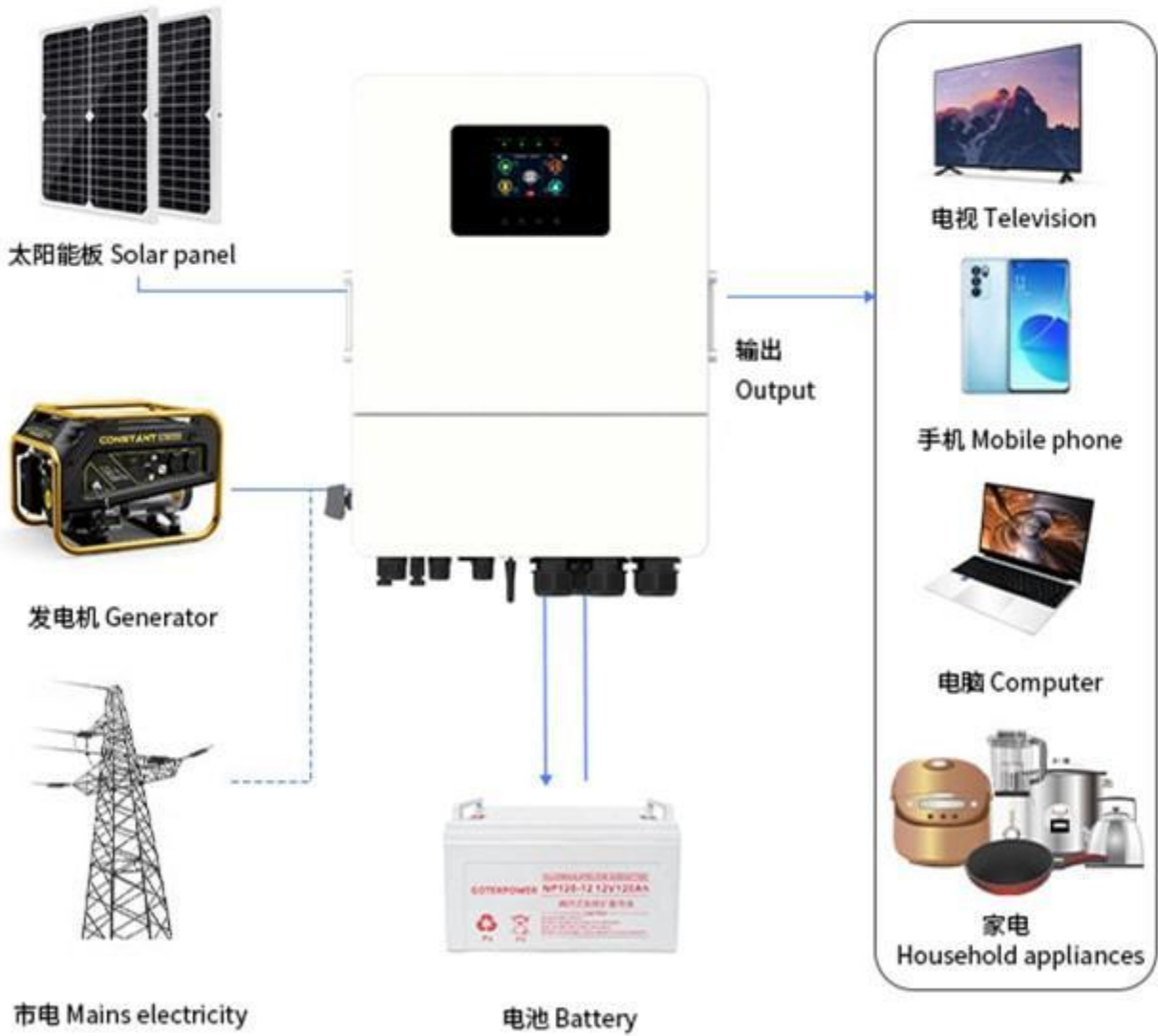
产品特性:

Product features:

- ▶ 纯正弦波太阳能逆变器(并网/离网)
Pure Sine Wave Solar Inverter (Grid-Tied/Off-Grid)
- ▶ 输出功率因数1.0
Output Power Factor: 1.0
- ▶ MPPT电压输入范围:60V~500VDC
MPPT Voltage Input Range: 60V~500V DC
- ▶ 可无电池运行
Battery-Free Operation Supported
- ▶ 内置锂电池自动激活
Built-in Lithium Battery Auto-Activation
- ▶ 支持IOS和ANDROID系统的WIFI与GPRS功能
WiFi & GPRS Support for iOS and Android Systems

★ 混合系统

Hybrid System



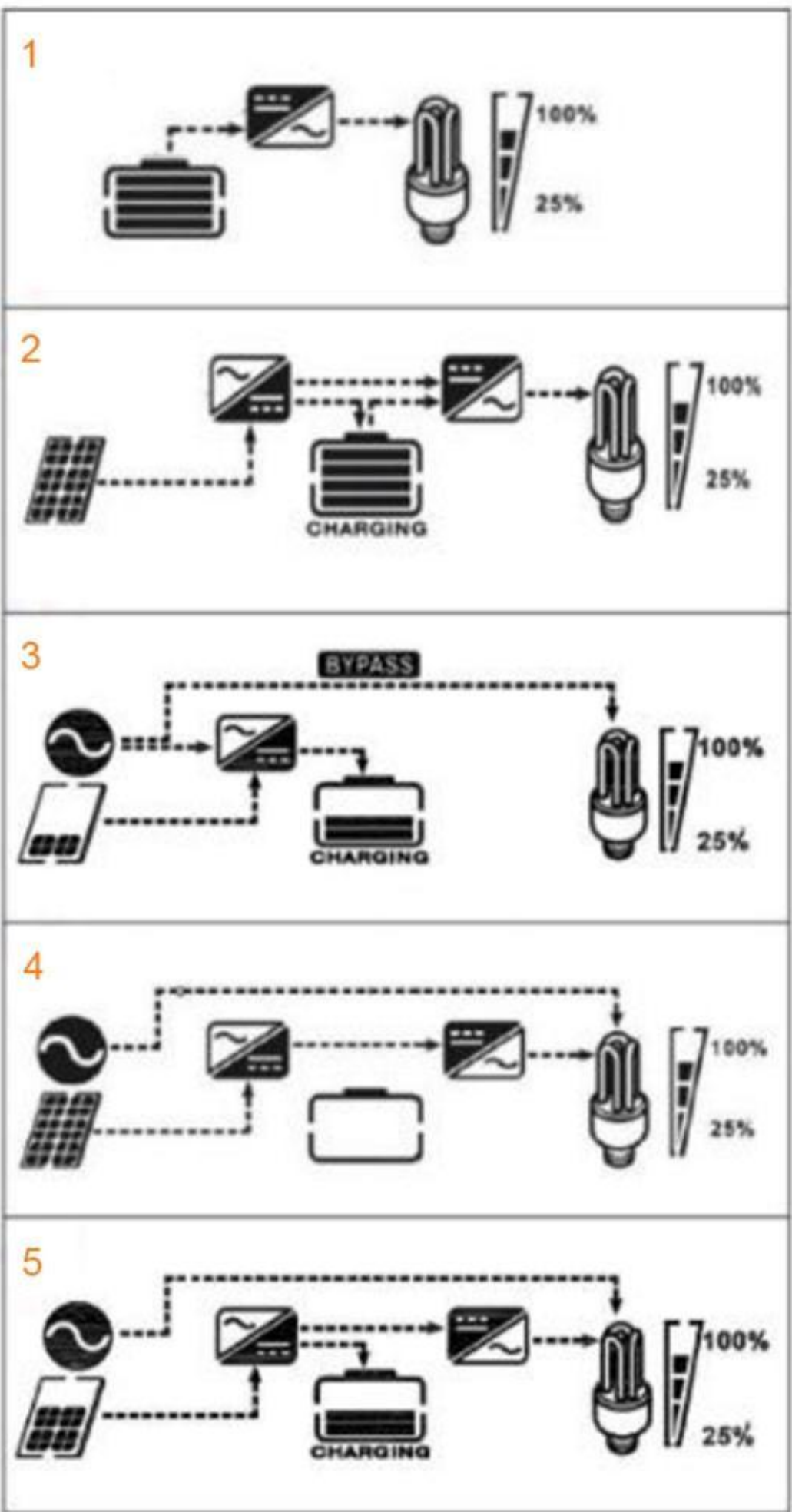
★ 产品优点

Product Advantages



★ 典型的工作模式

Typical working mode



■ 产品参数

Product parameters

产品型号 Product model	SHI-6KW-48V-IP65-EU	SHI-16KW-48V-IP65-EU
最大光伏输入功率 Maximum Photovoltaic Input Power	9000W	21800W
额定输出功率 Rated Output Power	6000W	16000W
最大直流电压 Maximum DC Voltage	520VDC	520VDC
启动电压/初始馈电电压 Start-up Voltage / Initial Feed-in Voltage	90VDC/120VDC	
MPPT工作电压范围 MPPT Operating Voltage Range	50-450VDC	50-450VDC
最大输入电流 Maximum Input Current	2/18A	3/18A+18A+36A
电网额定输出电压 Rated Output Voltage	220/230/240VAC	
电网输出电压范围 Output Voltage Range	184-264.5 VAC or 195.5-253 VAC or 184-264.4 VAC(可选)	
电网额定输出电流 Rated Output Current	26.1A	69.6A
交流启动电压/自动重启电压 AC Start-up Voltage / Auto-restart Voltage	170-280 VAC	
可接受输入电压范围 Acceptable Input Voltage Range	90-280VAC or 170-280 VAC	
最大交流输入电流 Maximum AC Input Current	40A	100A
额定输出电压 Battery Output Voltage	220/230/240VAC	
转换效率(直流→交流) Conversion Efficiency (DC to AC)	93%	
标称直流电压 Nominal DC Voltage	48VDC	48VDC
最大太阳能充电电流 Maximum Solar Charging Current	135AMP	250AMP
交流最大充电电流 Maximum AC Charging Current	135AMP	250AMP
PV最大充电电流 PV Maximum Charging Current	135AMP	250AMP
并联功能 Parallel Function	5%~最多可并联6台,Maximum 6 Units in Parallel	
通信接口 Communication Interface	RS485/CAN/Wi-Fi/干接点	
工作湿度范围 Operating Humidity Range	5%~95%(Non-condensing)	
防护等级 Ingress Protection (IP) Rating	IP65	
工作温度范围 Operating Temperature Range	-10℃~50℃	
存储温度范围 Storage Temperature Range	-15℃~60℃	
宽×深×高(mm) Width × Depth × Height (mm)	470*236*521	491*300*637
净重(kg) Net Weight (kg)	23.5	50

USI

美规单相混网系列

US Standard Single-Phase Hybrid Series

产品特点

Product Features

专属 120V/60Hz 频率设计

Dedicated 120V/60Hz Frequency Design

纯正弦波稳定输出

Pure Sine Wave Stable Output

体积小巧安装便捷

Compact Size, Easy Installation

高效光电转换

High-Efficiency Photoelectric Conversion

多重安全防护

Multi-Level Safety Protection

运行静音低耗

Quiet Operation, Low Power Consumption

模式灵活多用

Flexible Multi-Mode Operation

电池广泛兼容

Wide Battery Compatibility

智能远程监控

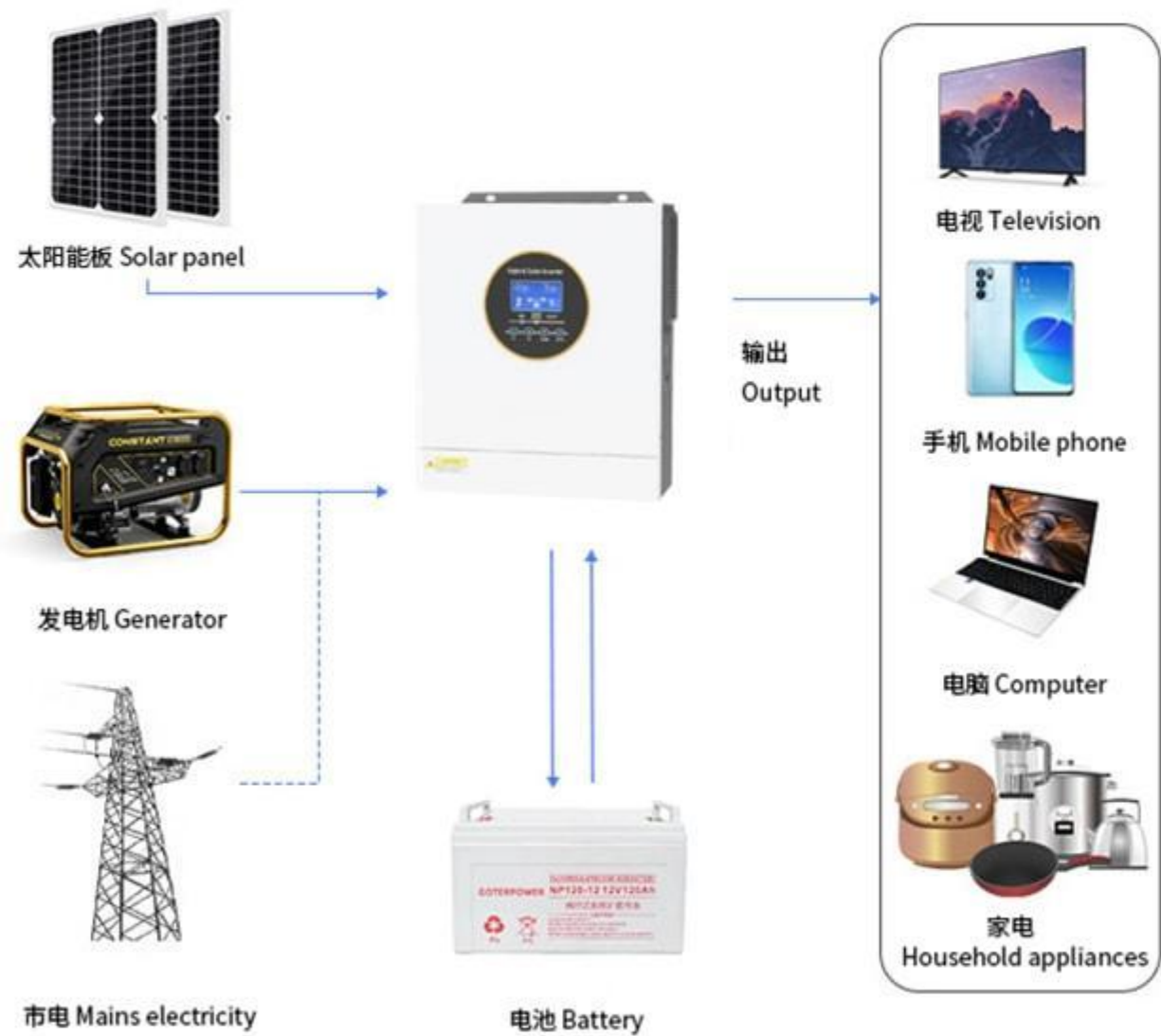
Intelligent Remote Monitoring

■ 美规单相混网 (USI-3KW, 3.6KW) 24V

US STANDARD SINGLE-PHASE HYBRID (GES-3KW, 3.6KW) 24V



★ 高频离网系统 High frequency off grid system



★ 底部接线展示 Bottom wiring display

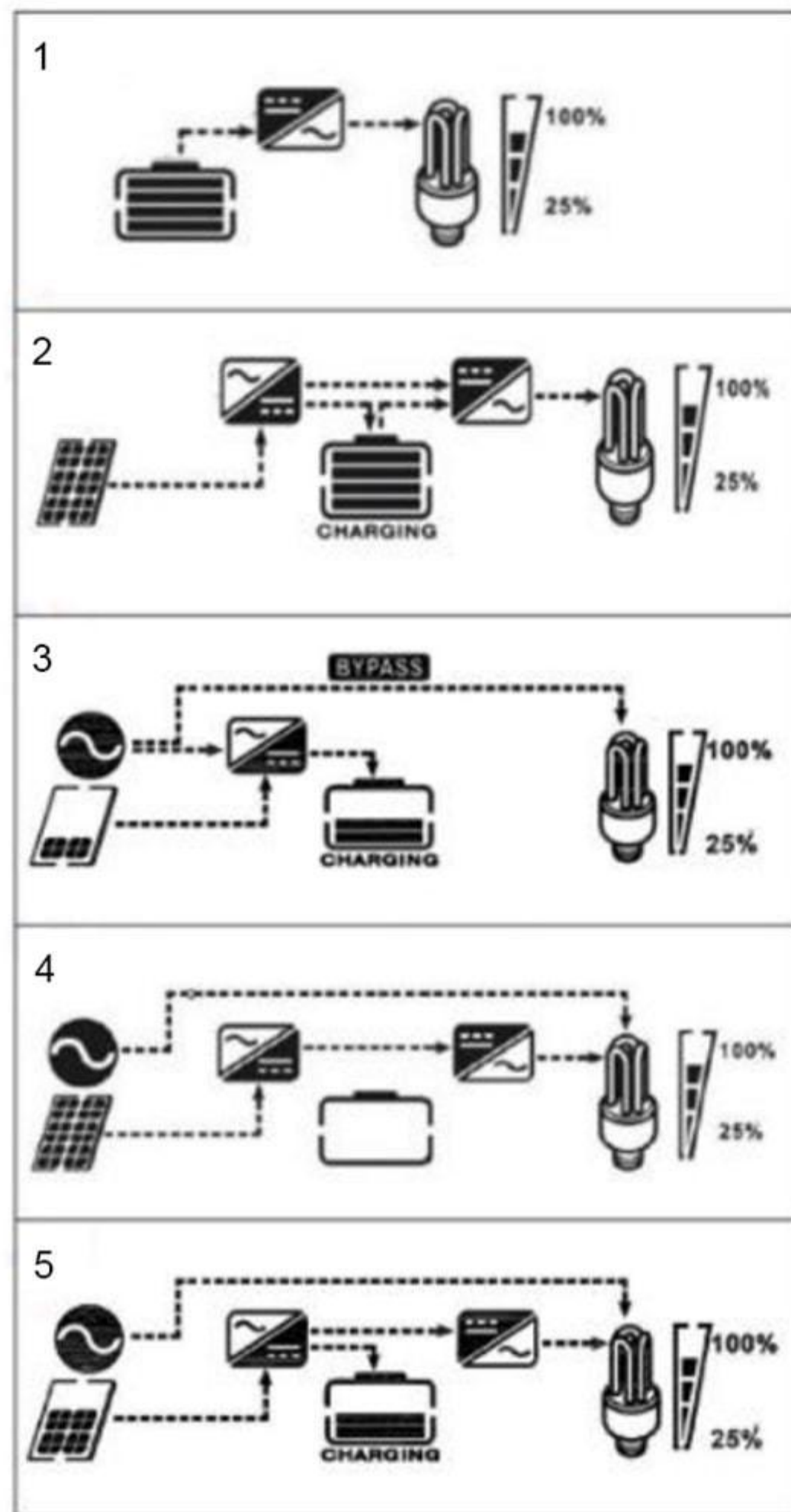


产品特性:

Product features:

- 内置防尘组件
Built-in dust-proof component
- 无需电池即可运行
It can operate without a battery
- MPPT电压输入范围:60V-300VDC
MPPT voltage input range :60V ~ 300Vdc
- 优秀的太阳能MPPT性能，效率高达99%
Outstanding solar MPPT performance, with an efficiency as high as 99%
- 电池唤醒功能
Battery wake-up function
- 锂电池BMS通信、WIFI、RS485、干接点
Lithium battery BMS communication, wifi, RS485, dry contact

★ 典型的工作模式 Typical working mode



■ 产品参数

Product parameters

产品型号 Product model	USI-3KW-24V	USI-3.6KW-24V
最大PV开路电压 Maximum PV open-circuit voltage	300VDC	300VDC
MPPT工作电压范围 MPPT operating voltage range	70-280VDC	70-280VDC
启动电压 Starting voltage	60VDC	60VDC
最大PV阵列功率 Maximum PV array power	3600W	4200W
电池类型 Battery Type	锂离子/铅酸 Lithium Ion/Lead Acid	
电池电压 Battery voltage	24V	24V
电池电压范围 Battery voltage range	21-29V	21-29V
电池最大充电电流 Battery maximum charging current	70A	80A
PV最大充电电流 PV Maximum charging current	80A	80A
最大连续放电电流 Maximum continuous discharge current	100A	100A
输入电压 Input voltage	120VAC	120VAC
输入电压范围 Input voltage range	90-140VAC	90-140VAC
输出标称电压 Output the nominal voltage	120Vac±5%	120Vac±5%
额定输出功率 Rated output power	3000W	3600W
峰值输出功率 Peak output power	4500W	5400W
标称输出频率 Nominal output frequency	50/60Hz	50/60Hz
相对湿度 Relative humidity	96.5%	96.5%
保护功能 Protection mode	过热过载、3s@>150%负载, 10S@110%~150%负载 Overheat and overload, 3s@>150% load, 10S@110%~150% load	
冷却方法 Cooling method	智能风冷 Intelligent air cooling	
通讯接口 Communication interface	RS485, 锂电池BMS通信卡, wifi卡, 4G RS485, lithium battery BMS communication card, wifi card, 4G	
储存温度 Storage temperature	-10° C~50° C	
显示屏 Display	彩色断码屏, LED灯显示市电, 充电状态, 逆变状态, 故障 Color broken code screen, LED lights display mains power, charging status, inverter status, fault	
海拔高度 Altitude	海拔高度超过1000m以上降额, 最高4000m, 参考IEC62040 Derate when the altitude exceeds 1000m, up to 4000m, refer to IEC62040	
防护等级 Protection level	IP 21	
产品重量 Product weight	6.4 kg	6.5 kg
宽*深*高 W*D*H (mm)	275*95*326	275*95*326

■ 美规单相混网 (US1-3KW, 3.6KW, 5.5KW) 48V

US STANDARD SINGLE-PHASE HYBRID (US1-3KW, 3.6K, 5.5KW) 48V



★ 高频离网系统 High frequency off grid system



★ 底部接线展示 Bottom wiring display

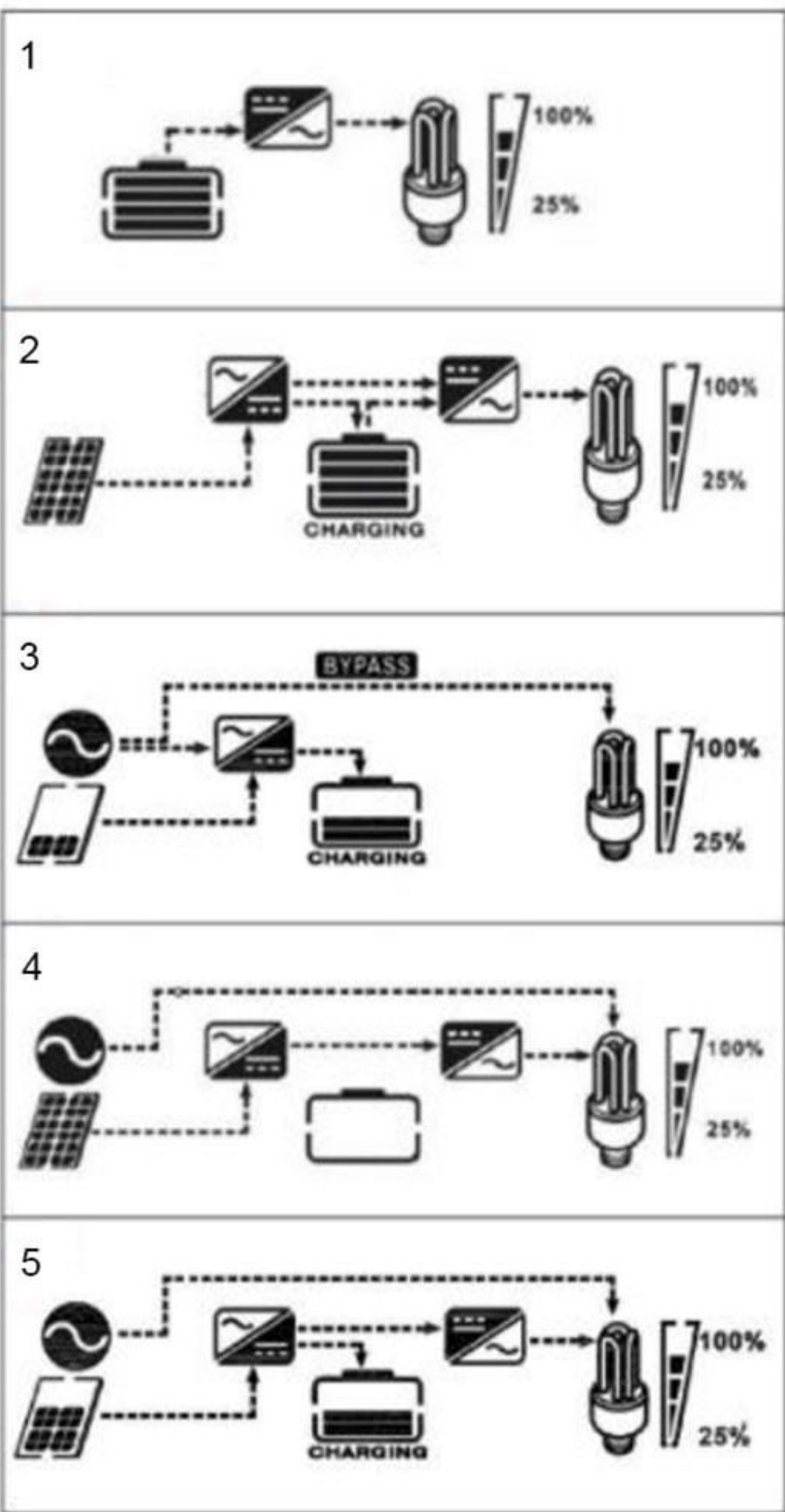


产品特性:

Product features:

- 内置防尘组件
Built-in dust-proof component
- 无需电池即可运行
It can operate without a battery
- MPPT电压输入范围:60V-300VDC
MPPT voltage input range :60V ~ 300Vdc
- 优秀的太阳能MPPT性能，效率高达99%
Outstanding solar MPPT performance, with an efficiency as high as 99%
- 电池唤醒功能
Battery wake-up function
- 锂电池BMS通信、WIFI、RS485、干接点
Lithium battery BMS communication, wifi, RS485, dry contact

★ 典型的工作模式 Typical working mode



■ 产品参数

Product parameters

产品型号 Product model	US1-3KW-48V	US1-3.6KW-48V	US1-5.5KW-48V
最大PV开路电压 Maximum PV open-circuit voltage	300VDC	300VDC	300VDC
MPPT工作电压范围 MPPT operating voltage range	70-280VDC	70-280VDC	70-280VDC
启动电压 Starting voltage	60VDC	60VDC	60VDC
最大PV阵列功率 Maximum PV array power	3600W	4200W	6000W
电池类型 Battery Type	锂离子/铅酸 Lithium Ion/Lead Acid		
电池电压 Battery voltage	48V	48V	48V
电池电压范围 Battery voltage range	42-58V	42-58	42-58
电池最大充电电流 Battery maximum charging current	35A	40A	50A
PV 最大充电电流 PV Maximum charging current	60A	60A	100A
最大连续放电电流 Maximum continuous discharge current	80A	80A	120A
输入电压 Input voltage	120VAC	120VAC	120VAC
输入电压范围 Input voltage range	90-140VAC	90-140VAC	90-140VAC
输出标称电压 Output the nominal voltage	120Vac±5%	120Vac±5%	120Vac±5%
额定输出功率 Rated output power	3000W	3600W	5500W
峰值输出功率 Peak output power	4500W	5400W	7500W
标称输出频率 Nominal output frequency	50/60Hz	50/60Hz	50/60Hz
相对湿度 Relative humidity	96.5%	96.5%	96.5%
保护功能 Protection mode	过热过载、3s@>150%负载, 10S@110%~150%负载 Overheat and overload, 3s@>150% load, 10S@110%~150% load		
冷却方法 Cooling method	智能风冷 Intelligent air cooling		
通讯接口 Communication interface	RS485, 锂电池BMS通信卡, wifi卡, 4G RS485, lithium battery BMS communication card, wifi card, 4G		
储存温度 Storage temperature	-10° C~50° C		
显示屏 Display	彩色断码屏, LED灯显示市电, 充电状态, 逆变状态, 故障 Color broken code screen, LED lights display mains power, charging status, inverter status, fault		
海拔高度 Altitude	海拔高度超过1000m以上降额, 最高4000m, 参考IEC62040 Derate when the altitude exceeds 1000m, up to 4000m, refer to IEC62040		
防护等级 Protection level	IP 21		
产品重量 Product weight	6.4 kg	6.5 kg	8.4 kg
宽*深*高 W*D*H (mm)	275*95*326	275*95*326	300*105*363

GES

美规裂相混网系列

US Standard Split-Phase Hybrid Series

产品特点

Product Features

符合美规标准，合规出口

Complies with US Standards, Compliant for Export

裂相输出，适配美国家用电路

Split-Phase Output, Compatible with US Household Circuits

并网离网双模式兼容

Grid-Tied and Off-Grid Dual Mode Compatible

高效MPPT功率追踪

High-Efficiency MPPT Power Tracking

纯正弦波输出，保护精密设备

Pure Sine Wave Output, Protects Precision Equipment

多重安全防护，适配北美环境

Multi-Layer Safety Protection, Adapted to North American Environment

兼容美规储能电池

Compatible with US-Standard Energy Storage Batteries

静音高效，安装便捷

Quiet, Efficient, and Easy Installation

远程监控，适配北美智能家居

Remote Monitoring, Compatible with North American Smart Homes

■ 美规裂相混网 (GES-3KW, 3.6KW) 24V

US-STANDARD SPLIT-PHASE HYBRID (GES-3KW, 3.6KW) 24V



★ 高频离网系统 High frequency off grid system



★ 底部接线展示 Bottom wiring display

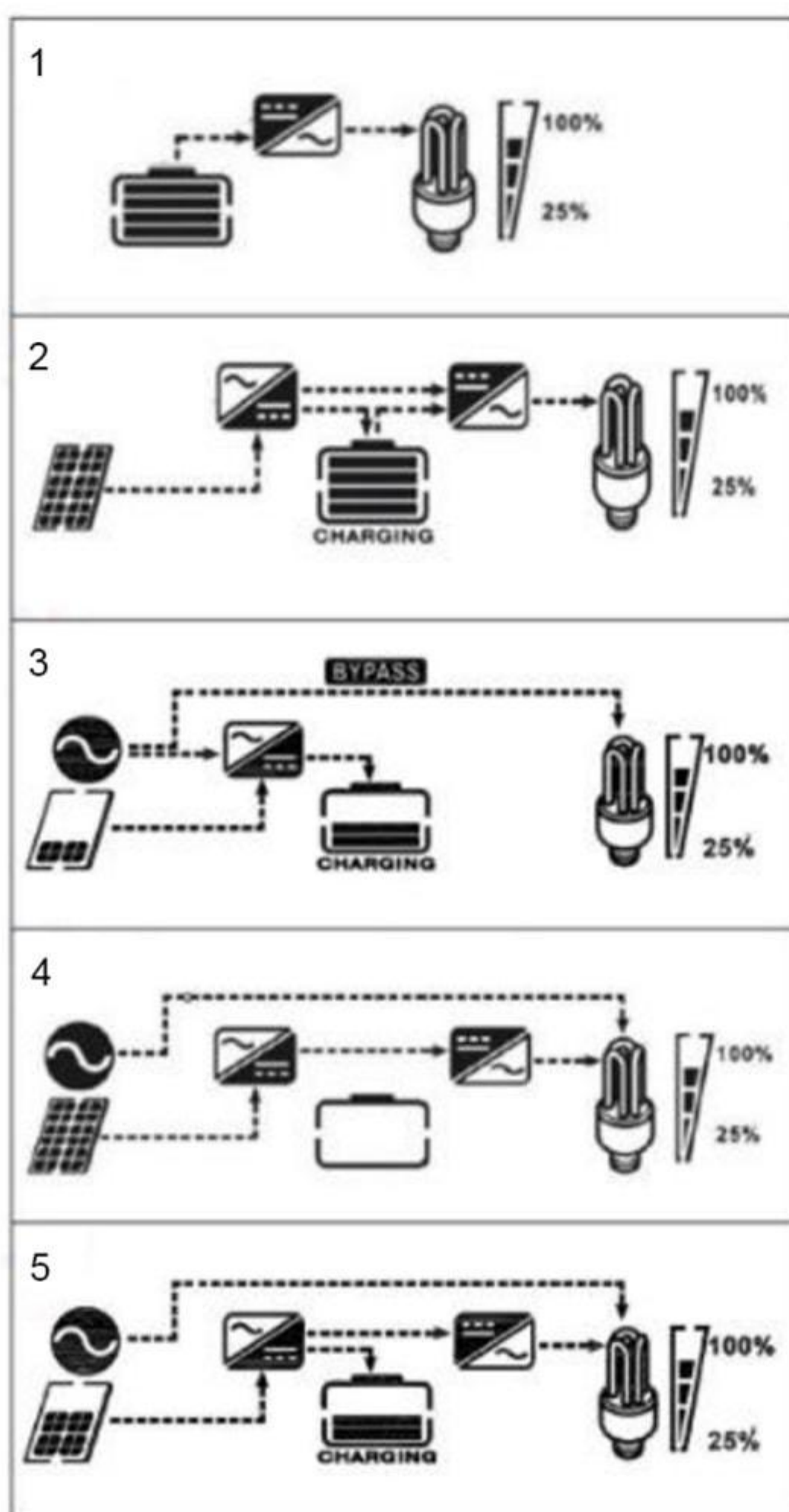


产品特性:

Product features:

- 内置防尘组件
Built-in dust-proof component
- 无需电池即可运行
It can operate without a battery
- MPPT电压输入范围:100V-500VDC
MPPT voltage input range :100V ~ 500Vdc
- 优秀的太阳能MPPT性能，效率高达99%
Outstanding solar MPPT performance, with an efficiency as high as 99%
- 电池唤醒功能
Battery wake-up function
- 锂电池BMS通信、WIFI、RS485、干接点
Lithium battery BMS communication, wifi, RS485, dry contact

★ 典型的工作模式 Typical working mode



■ 产品参数

Product parameters

产品型号 Product model	GES-3KW-24V	GES-3.6KW-24V
最大PV开路电压 Maximum PV open-circuit voltage	500VDC	
MPPT工作电压范围 MPPT operating voltage range	120-450VDC	
启动电压 Starting voltage	100VDC	
最大PV阵列功率 Maximum PV array power	3600W	4200W
电池类型 Battery Type	锂离子/铅酸 Lithium Ion/Lead Acid	
电池电压 Battery voltage	24V	
电池电压范围 Battery voltage range	21-29V	
电池最大充电电流 Battery maximum charging current	70A	80A
PV最大充电电流 PV Maximum charging current	80A	100A
最大连续放电电流 Maximum continuous discharge current	100A	120A
输入电压 Input voltage	240VAC	240VAC
输入电压范围 Input voltage range	180-280VAC	
输出标称电压 Output the nominal voltage	115Vac±5%/230Vac±5%	
额定输出功率 Rated output power	3000W	3600W
峰值输出功率 Peak output power	4500W	5400W
标称输出频率 Nominal output frequency	50/60Hz	
相对湿度 Relative humidity	96.5%	
保护功能 Protection mode	过热过载、3s@>150%负载, 10S@110%~150%负载 Overheat and overload, 3s@>150% load, 10S@110%~150% load	
冷却方法 Cooling method	智能风冷 Intelligent air cooling	
通讯接口 Communication interface	RS232, 锂电池BMS通信卡, wifi卡, 4G RS232, lithium battery BMS communication card, wifi card, 4G	
储存温度 Storage temperature	-10° C~50° C	
显示屏 Display	彩色断码屏, LED灯显示市电, 充电状态, 逆变状态, 故障 Color broken code screen, LED lights display mains power, charging status, inverter status, fault	
海拔高度 Altitude	海拔高度超过1000m以上降额, 最高4000m, 参考IEC62040 Derate when the altitude exceeds 1000m, up to 4000m, refer to IEC62040	
防护等级 Protection level	IP 21	
产品重量 Product weight	9 kg	10kg
宽*深*高 W*D*H (mm)	300*105*373	

■ 美规裂相混网 (GES-3.6KW , 5.5KW) 48V

US-STANDARD SPLIT-PHASE HYBRID (GES-3.6KW, 5.5KW) 48V



★ 高频离网系统 High frequency off grid system



★ 底部接线展示 Bottom wiring display

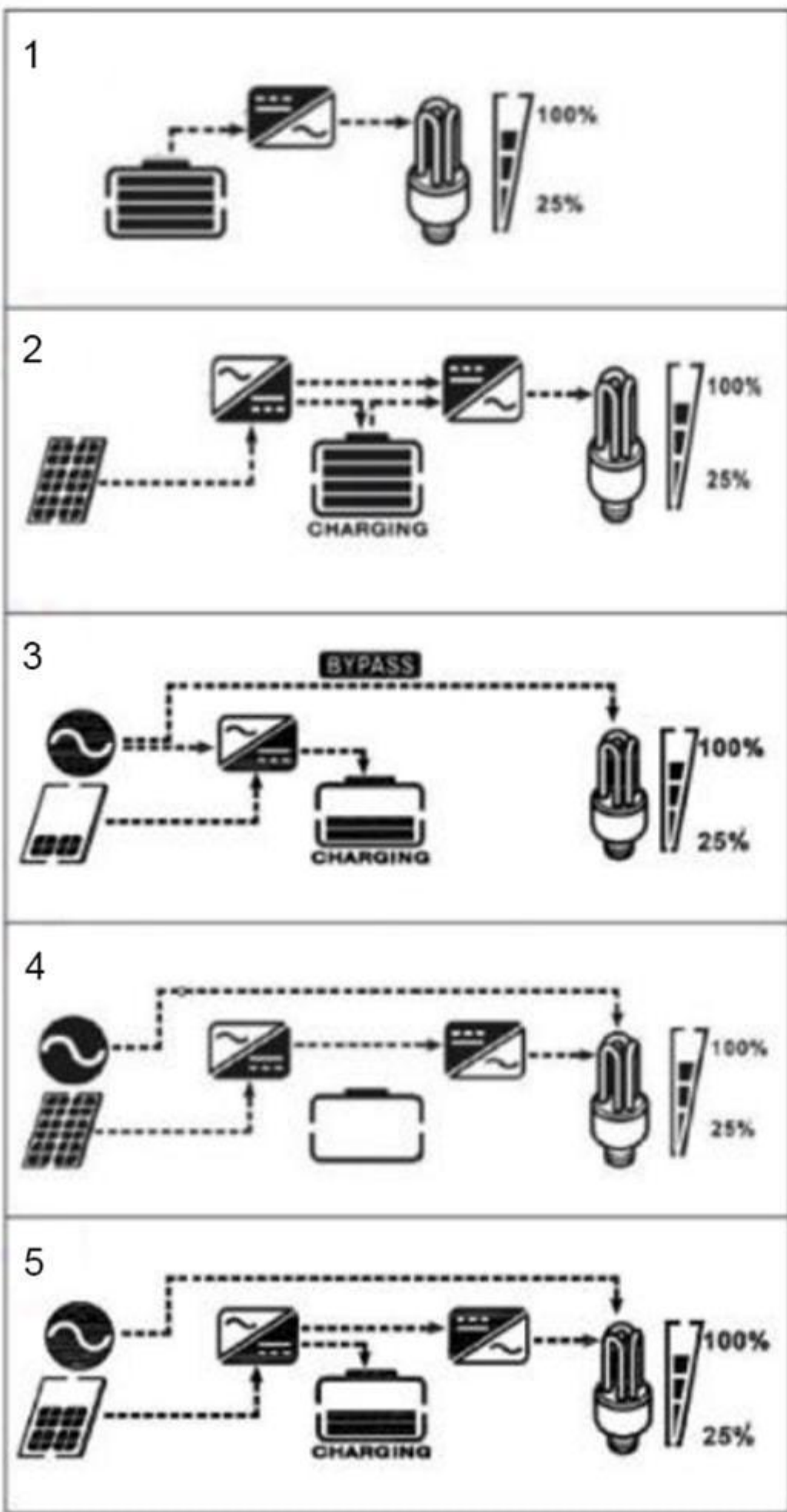


产品特性:

Product features:

- 内置防尘组件
Built-in dust-proof component
- 无需电池即可运行
It can operate without a battery
- MPPT电压输入范围:100V-500VDC
MPPT voltage input range :100V ~ 500Vdc
- 优秀的太阳能MPPT性能，效率高达99%
Outstanding solar MPPT performance, with an efficiency as high as 99%
- 电池唤醒功能
Battery wake-up function
- 锂电池BMS通信、WIFI、RS485、干接点
Lithium battery BMS communication, wifi, RS485, dry contact

★ 典型的工作模式 Typical working mode



■ 产品参数

Product parameters

产品型号 Product model	GES-3.6KW-48V	GES-5.5KW-48V
最大PV开路电压 Maximum PV open-circuit voltage	500VDC	
MPPT工作电压范围 MPPT operating voltage range	120-450VDC	
启动电压 Starting voltage	100VDC	
最大PV阵列功率 Maximum PV array power	4200W	6600W
电池类型 Battery Type	锂离子/铅酸 Lithium Ion/Lead Acid	
电池电压 Battery voltage	48V	48V
电池电压范围 Battery voltage range	41-58V	41-58V
电池最大充电电流 Battery maximum charging current	80A	50A
PV最大充电电流 PV Maximum charging current	80A	100A
最大连续放电电流 Maximum continuous discharge current	100A	120A
输入电压 Input voltage	240VAC	240VAC
输入电压范围 Input voltage range	180-280VAC	
输出标称电压 Output the nominal voltage	115Vac±5%/230Vac±5%	
额定输出功率 Rated output power	3600W	5500W
峰值输出功率 Peak output power	5400W	8000W
标称输出频率 Nominal output frequency	50/60Hz	50/60Hz
相对湿度 Relative humidity	96.5%	96.5%
保护功能 Protection mode	过热过载、3s@>150%负载，10S@110%~150%负载 Overheat and overload, 3s@>150% load, 10S@110%~150% load	
冷却方法 Cooling method	智能风冷 Intelligent air cooling	
通讯接口 Communication interface	RS485，锂电池BMS通信卡，wifi卡，4G RS485, lithium battery BMS communication card, wifi card, 4G	
储存温度 Storage temperature	-10° C~50° C	
显示屏 Display	彩色断码屏，LED灯显示市电，充电状态，逆变状态，故障 Color broken code screen, LED lights display mains power, charging status, inverter status, fault	
海拔高度 Altitude	海拔高度超过1000m以上降额，最高4000m，参考IEC62040 Derate when the altitude exceeds 1000m, up to 4000m, refer to IEC62040	
防护等级 Protection level	IP 21	
产品重量 Product weight	10. kg	11 kg
宽*深*高 W*D*H (mm)	275*95*326	300*105*363

■ 美规裂相混网 (GES-6.2KW, 8.5KW) 48V

US-STANDARD SPLIT-PHASE HYBRID (GES-6.2KW, 8.5KW) 48V



★ 高频离网系统 High frequency off grid system



★ 底部接线展示 Bottom wiring display

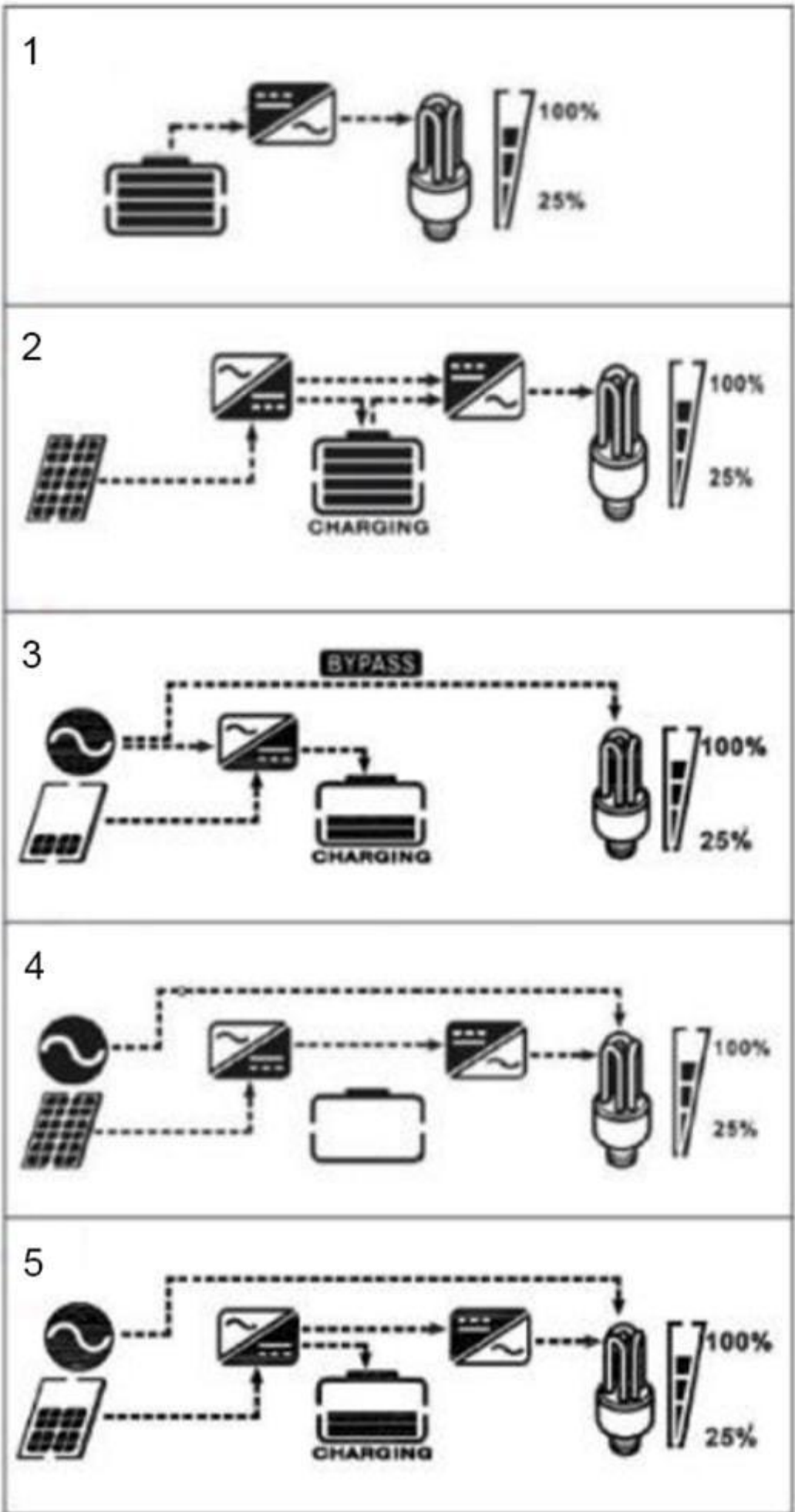


产品特性:

Product features:

- 内置防尘组件
Built-in dust-proof component
- 无需电池即可运行
It can operate without a battery
- MPPT电压输入范围:100V-500VDC
MPPT voltage input range :100V ~ 500Vdc
- 优秀的太阳能MPPT性能，效率高达99%
Outstanding solar MPPT performance, with an efficiency as high as 99%
- 电池唤醒功能
Battery wake-up function
- 锂电池BMS通信、WIFI、RS485、干接点
Lithium battery BMS communication, wifi, RS485, dry contact

★ 典型的工作模式 Typical working mode



■ 产品参数

Product parameters

产品型号 Product model	GES-6.2KW-48V	GES-8.5KW-48V
最大PV开路电压 Maximum PV open-circuit voltage	500VDC	
MPPT工作电压范围 MPPT operating voltage range	120-450VDC	
启动电压 Starting voltage	100VDC	
最大PV阵列功率 Maximum PV array power	6600W	6600W*2
电池类型 Battery Type	锂离子/铅酸 Lithium Ion/Lead Acid	
电池电压 Battery voltage	48V	
电池电压范围 Battery voltage range	41-58V	
电池最大充电电流 Battery maximum charging current	65A	80A
PV最大充电电流 PV Maximum charging current	100A	140A
最大连续放电电流 Maximum continuous discharge current	135A	180A
输入电压 Input voltage	240VAC	240VAC
输入电压范围 Input voltage range	180-280VAC	
输出标称电压 Output the nominal voltage	115/230VAC±5%	
额定输出功率 Rated output power	6200W	8500W
峰值输出功率 Peak output power	8800W	11000W
标称输出频率 Nominal output frequency	50/60Hz	
相对湿度 Relative humidity	96.5%	
保护功能 Protection mode	过热过载、3s@>150%负载, 10S@110%~150%负载 Overheat and overload, 3s@>150% load, 10S@110%~150% load	
冷却方法 Cooling method	智能风冷 Intelligent air cooling	
通讯接口 Communication interface	RS232, 锂电池BMS通信卡, wifi卡, 4G RS232, lithium battery BMS communication card, wifi card, 4G	
储存温度 Storage temperature	-10° C~50° C	
显示屏 Display	彩色断码屏, LED灯显示市电, 充电状态, 逆变状态, 故障 Color broken code screen, LED lights display mains power, charging status, inverter status, fault	
海拔高度 Altitude	海拔高度超过1000m以上降额, 最高4000m, 参考IEC62040 Derate when the altitude exceeds 1000m, up to 4000m, refer to IEC62040	
防护等级 Protection level	IP 21	
产品重量 Product weight	10 kg	14 kg
宽*深*高 W*D*H (mm)	300*105*373	360*120*500

■ 美规裂相混网 (GES-10.2KW, 12KW) 48V

US-STANDARD SPLIT-PHASE HYBRID (GES-10.2KW, 12KW) 48V



★ 高频离网系统 High frequency off grid system



★ 底部接线展示 Bottom wiring display

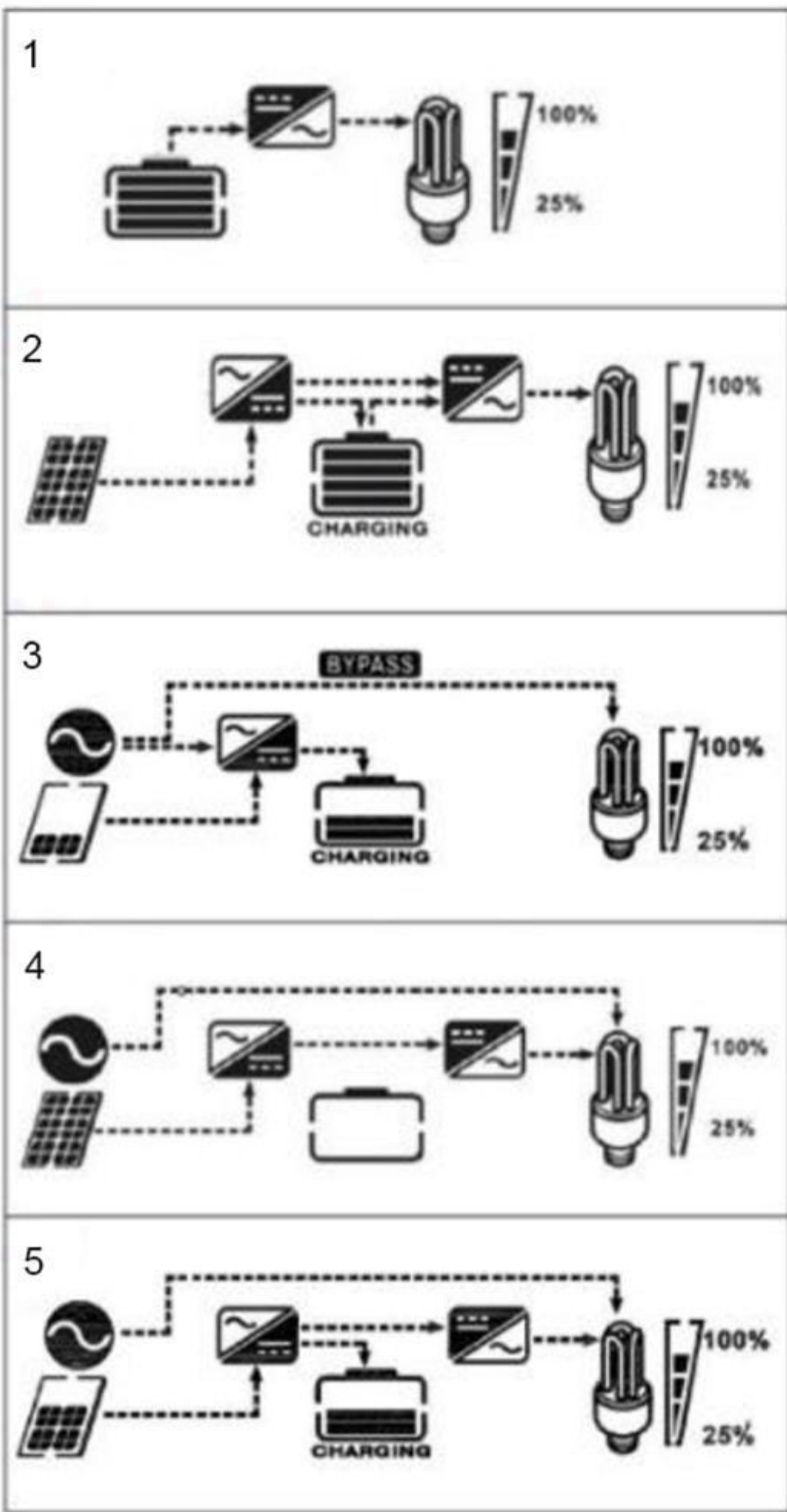


产品特性:

Product features:

- 内置防尘组件
Built-in dust-proof component
- 无需电池即可运行
It can operate without a battery
- MPPT电压输入范围:100V-500VDC
MPPT voltage input range :100V ~ 500Vdc
- 优秀的太阳能MPPT性能，效率高达99%
Outstanding solar MPPT performance, with an efficiency as high as 99%
- 电池唤醒功能
Battery wake-up function
- 锂电池BMS通信、WIFI、RS485、干接点
Lithium battery BMS communication, wifi, RS485, dry contact

★ 典型的工作模式 Typical working mode



■ 产品参数

Product parameters

产品型号 Product model	GES-10.2KW-48V	GES-12KW-48V
最大PV开路电压 Maximum PV open-circuit voltage	500VDC	
MPPT工作电压范围 MPPT operating voltage range	120-450VDC	
启动电压 Starting voltage	100VDC	
最大PV阵列功率 Maximum PV array power	6600W*2	
电池类型 Battery Type	锂离子/铅酸 Lithium Ion/Lead Acid	
电池电压 Battery voltage	48V	
电池电压范围 Battery voltage range	41-58V	
电池最大充电电流 Battery maximum charging current	100A	100A
PV最大充电电流 PV Maximum charging current	160A	180A
最大连续放电电流 Maximum continuous discharge current	210A	230A
输入电压 Input voltage	240VAC	
输入电压范围 Input voltage range	180-280VAC	
输出标称电压 Output the nominal voltage	115Vac±5%/230Vac5%	
额定输出功率 Rated output power	10200W	12000W
峰值输出功率 Peak output power	14000W	15000W
标称输出频率 Nominal output frequency	50/60Hz	
相对湿度 Relative humidity	96.5%	
保护功能 Protection mode	过热过载、3s@>150%负载, 10S@110%~150%负载 Overheat and overload, 3s@>150% load, 10S@110%~150% load	
冷却方法 Cooling method	智能风冷 Intelligent air cooling	
通讯接口 Communication interface	RS232, 锂电池BMS通信卡, wifi卡, 4G RS232, lithium battery BMS communication card, wifi card, 4G	
储存温度 Storage temperature	-15° C~60° C	
显示屏 Display	彩色断码屏, LED灯显示市电, 充电状态, 逆变状态, 故障 Color broken code screen, LED lights display mains power, charging status, inverter status, fault	
海拔高度 Altitude	海拔高度超过1000m以上降额, 最高4000m, 参考IEC62040 Derate when the altitude exceeds 1000m, up to 4000m, refer to IEC62040	
防护等级 Protection level	IP 21	
产品重量 Product weight	14.5 kg	15 kg
宽*深*高 W*D*H (mm)	360*120*500	360*120*500

LFP

锂电池系列

Lithium-Ion Battery Series

产品特点

Product Features

高能量密度

High Energy Density

长循环寿命

Long Cycle Life

高充放电效率

High Charge/Discharge Efficiency

智能 BMS 管理

Intelligent BMS Management

宽温域稳定运行

Wide Temperature Range Stable Operation

模块化可扩容

Modular Scalability

低自放电率

Low Self-Discharge Rate

多重安全防护

Multi-Level Safety Protection

高压直连适配

High-Voltage Direct Connection Compatibility

- **家储落地式** (LFP-51.2V-280AH, 300AH, 314AH)
FLOOR-STANDING HOME ENERGY STORAGE (LFP-51.2V-280AH, 300AH, 314AH)



产品特性:

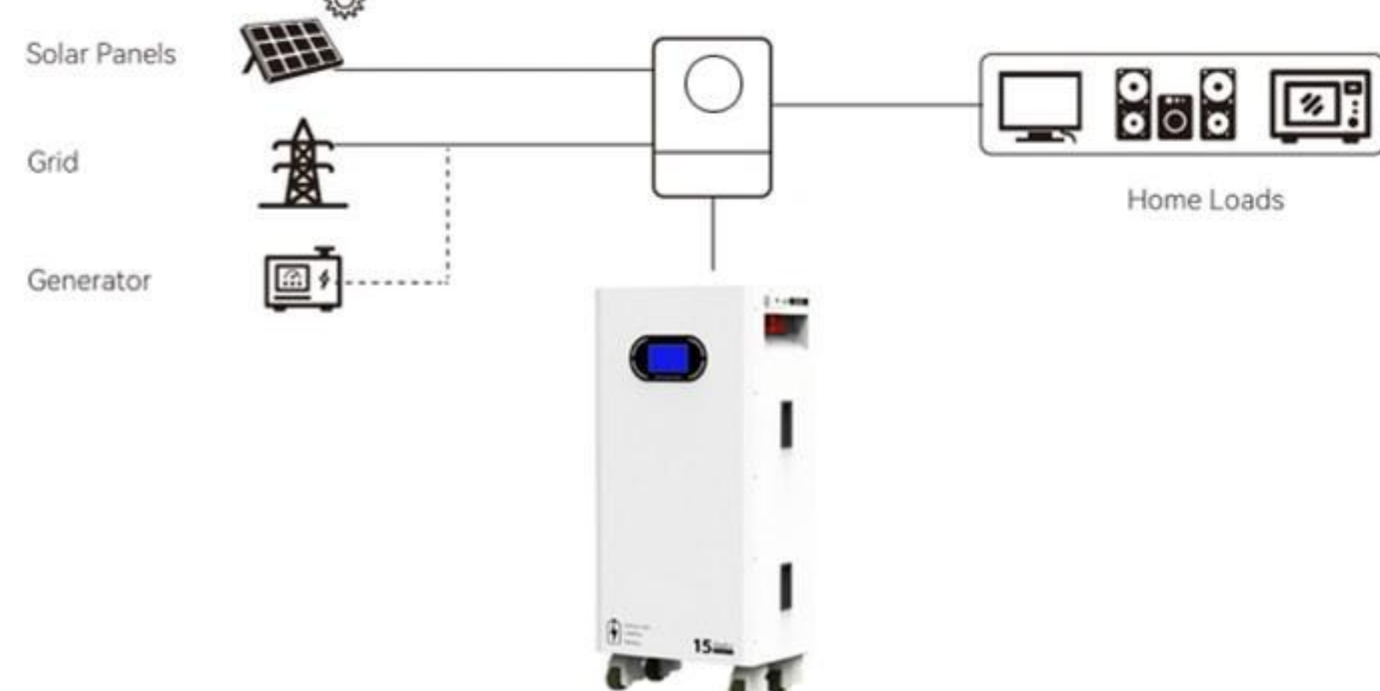
Product features:

- 高安全磷酸铁锂电芯特性
Characteristics of high-safety lithium iron phosphate battery cells
- 智能BMS电池管理特性
Intelligent BMS battery management features
- 模块化可扩展特性
Modular and scalable features
- 壁挂式空间优化特性
Wall-mounted space optimization features
- 宽温域稳定运行特性
Wide temperature range stable operation characteristics
- 高效节能与应急适配特性
High efficiency, energy conservation and emergency adaptation features

★ 光伏储能系统 Photovoltaic energy storage system



★ 电池接线展示 Battery wiring display



■ 产品参数

Product parameters

[illegible]

- **家储落地式 (LFP-51.2V-200AH)**
FLOOR-STANDING HOME ENERGY STORAGE (LFP-51.2V-200AH)



产品特性:

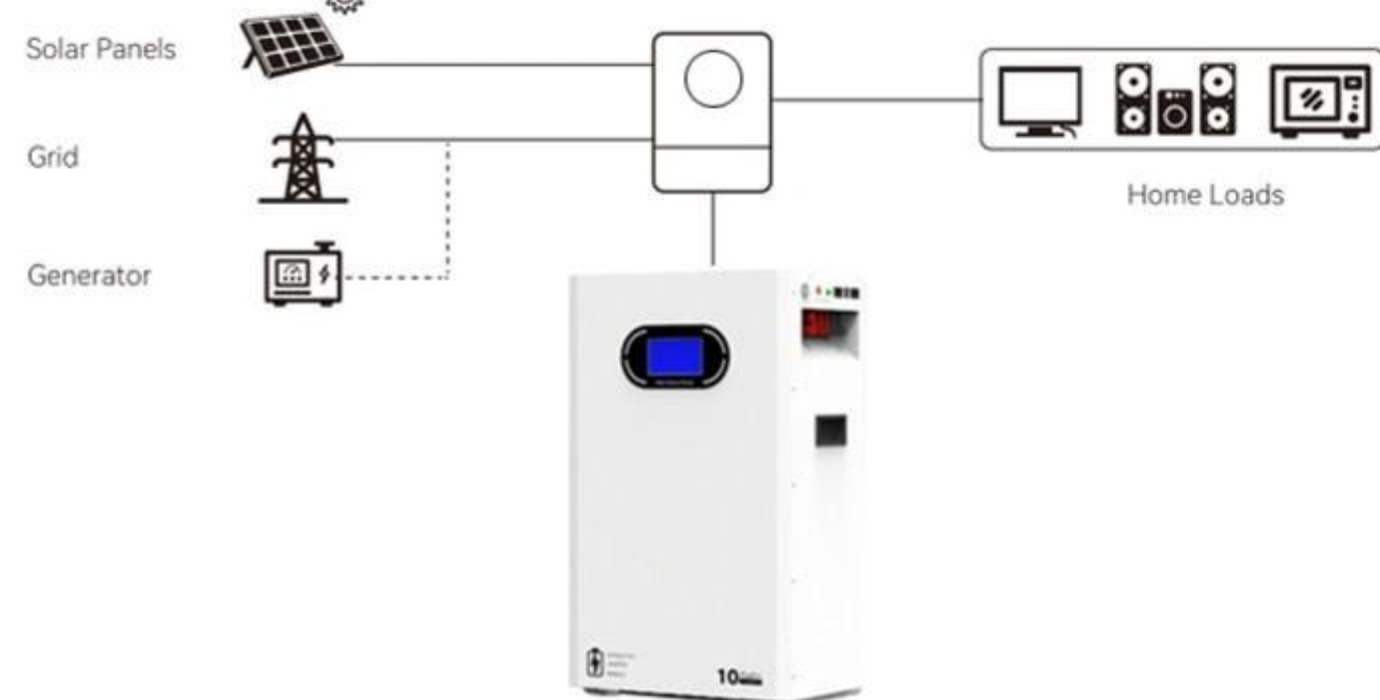
Product features:

- 高安全磷酸铁锂电芯特性
Characteristics of high-safety lithium iron phosphate battery cells
- 智能BMS电池管理特性
Intelligent BMS battery management features
- 模块化可扩展特性
Modular and scalable features
- 壁挂式空间优化特性
Wall-mounted space optimization features
- 宽温域稳定运行特性
Wide temperature range stable operation characteristics
- 高效节能与应急适配特性
High efficiency, energy conservation and emergency adaptation features

★ 光伏储能系统 Photovoltaic energy storage system



★ 电池接线展示 Battery wiring display



★ 应用场景 Application scenarios



1: 房车野营
Rv camping



2: 家庭储能



3: 民宿供电

Power supply for homestays



4: 光伏发电

Photovoltaic power generation



5: 汽车补电
Car charging



6: 海岛渔船
Island fishing boats

■ 产品参数

Product parameters

[illegible]

RACK-MOUNT (LFP-51.2V100AH, 120AH, 200AH)



产品特性:

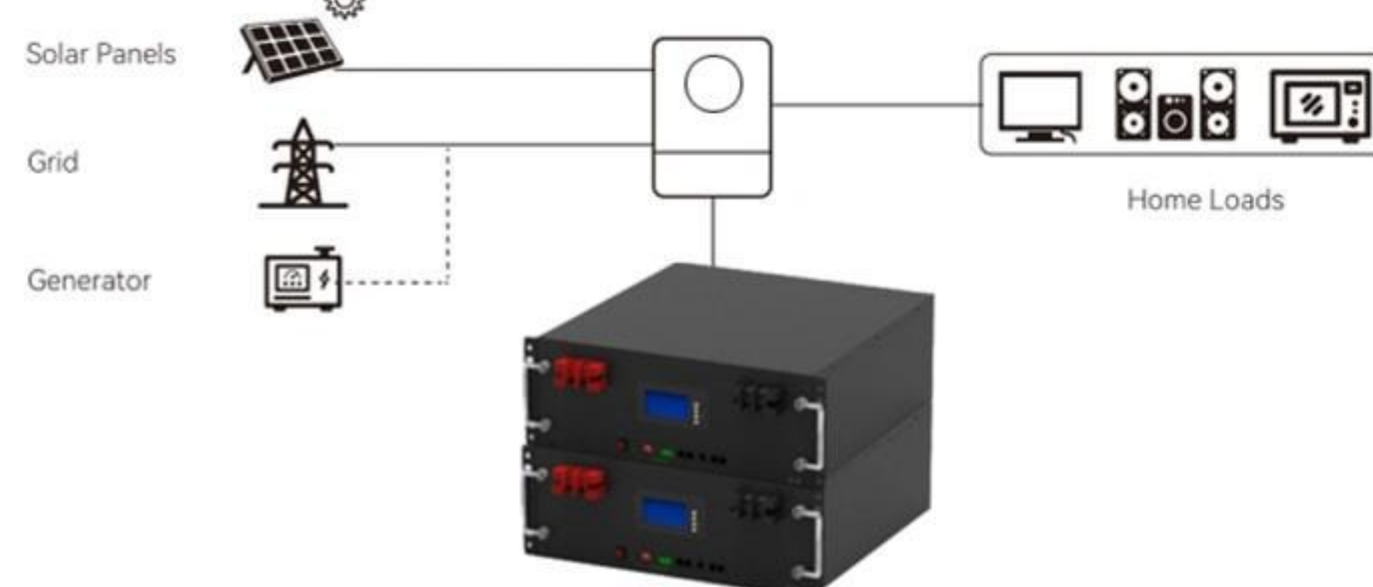
Product features:

- ▶ **标准机架式安装，节省空间**
Standard rack-mount installation, space-saving
- ▶ **模块化设计，灵活扩容**
Modular design, flexible expansion
- ▶ **智能 BMS 集中管理**
Centralized intelligent BMS management
- ▶ **高可靠性，高安全防护**
High reliability, advanced safety protection
- ▶ **低噪音运行，不干扰精密设备**
Low-noise operation, interference-free for sensitive equipment
- ▶ **维护便捷，可热插拔更换**
Easy maintenance, hot-swap replaceable

★ 光伏储能系统 Photovoltaic energy storage system



★ 电池接线展示 Battery wiring display



Product parameters

[illegible]

- **家储壁挂式 (LFP-25.6V-200AH, 300AH)**
HOME STORAGE WALL-MOUNTED TYPE (LFP-25.6V-200AH, 300AH)



产品特性:

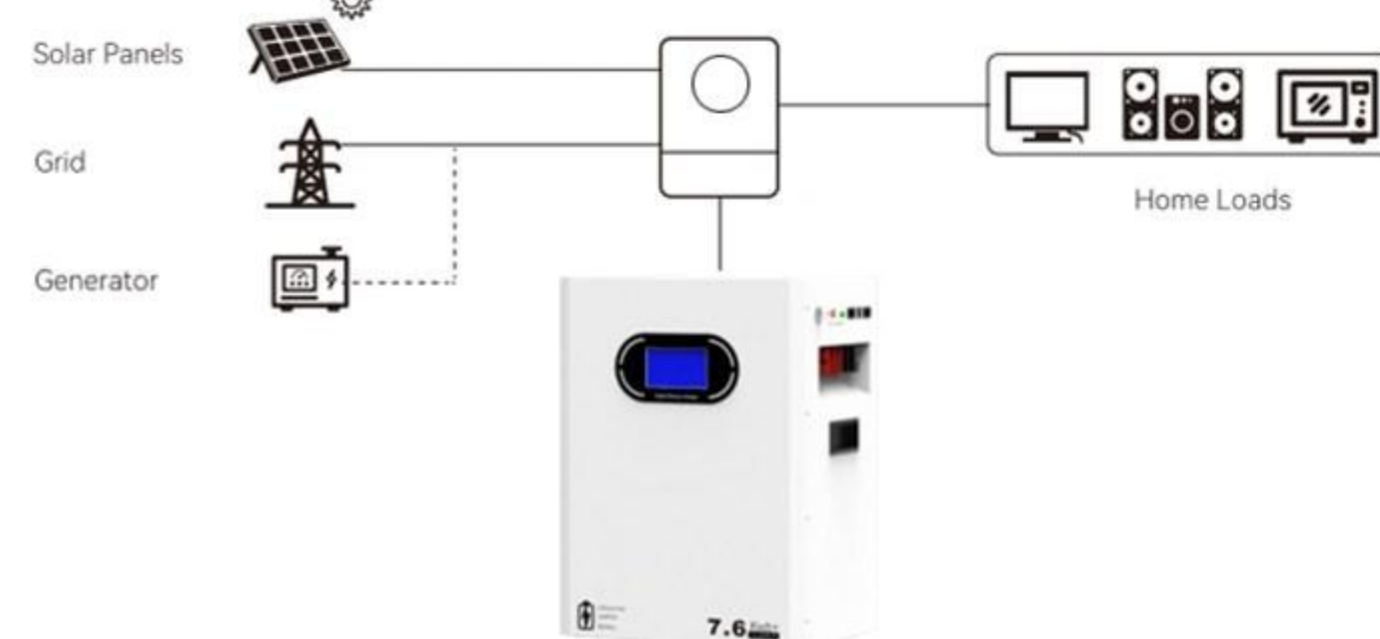
Product features:

- 高安全磷酸铁锂电芯特性
Characteristics of high-safety lithium iron phosphate battery cells
- 智能BMS电池管理特性
Intelligent BMS battery management features
- 模块化可扩展特性
Modular and scalable features
- 壁挂式空间优化特性
Wall-mounted space optimization features
- 宽温域稳定运行特性
Wide temperature range stable operation characteristics
- 高效节能与应急适配特性
High efficiency, energy conservation and emergency adaptation features

★ 光伏储能系统 Photovoltaic energy storage system



★ 电池接线展示 Battery wiring display



■ 产品参数

Product parameters

[illegible]

■ **家儲壁掛式** (LFP-25.6V-100AH, 51.2V-100AH)
HOME STORAGE WALL-MOUNTED TYPE (LFP-25.6V-100AH, 51.2V-100AH)



产品特性:

Product features:

- 高安全磷酸铁锂电芯特性
Characteristics of high-safety lithium iron phosphate battery cells
- 智能BMS电池管理特性
Intelligent BMS battery management features
- 模块化可扩展特性
Modular and scalable features
- 壁挂式空间优化特性
Wall-mounted space optimization features
- 宽温域稳定运行特性
Wide temperature range stable operation characteristics
- 高效节能与应急适配特性
High efficiency, energy conservation and emergency adaptation features

★ 光伏储能系统 Photovoltaic energy storage system



★ 电池接线展示 Battery wiring display



★ 应用场景 Application scenarios



1: 房车野营
Rv camping



2: 家庭储能



3: 民宿供电

Power supply for homestays



4: 光伏发电



5: 汽车补电
Car charging



6: 海岛渔船
Island fishing boats

■ 产品参数

Product parameters

[illegible]

- **铅改锂电池** (LFP-12.8V-50AH, 100AH, 200AH)
LEAD-ACID TO LITHIUM BATTERY CONVERSION (LFP-12.8V50AH, 100AH, 200AH)



产品特性:

Product features:

- ▶ **大容量高功率，**
High Capacity & High Power
- ▶ **承重与抗震性能强**
Strong Load-Bearing and Seismic Resistance
- ▶ **适应恶劣工业环境**
Adaptable to Harsh Industrial Environments
- ▶ **散热效率高**
High Heat Dissipation Efficiency
- ▶ **集成度高，一站式交付部署**
High Integration Level, One-Stop Deployment
- ▶ **维护便捷，预留充足检修空间**
Easy Maintenance, Ample Space Reserved for Servicing

★ 典型的应用场景 Typical Application Scenarios

用于住宅、工业和商业用途的储能，
以及电信和UPS系统

Energy storage for residential, industrial, and commercial use, as well as telecommunications and UPS systems

动力电源，用于电动自行车、电动滑板车、电动高尔夫球车、电动叉车、AGV等

Power source for electric bicycles, electric scooters, electric golf carts, electric forklifts, AGVs, etc.



用于船舶、房车、备用电源、太阳能及其他使用铅酸电池的场合的铅酸电池替代品

A lead-acid battery replacement for marine, RV, backup power, solar, and other applications traditionally using lead-acid batteries

■ 产品参数

[illegible]

志存高远.勇攀高峰

Aim high and reach the peak bravely

