



# 户用储能系统

## Household Energy Storage



### 离网一体机

#### 应用场景

无电，缺电，电力不稳定地区，无电机等冲击性负载的场景

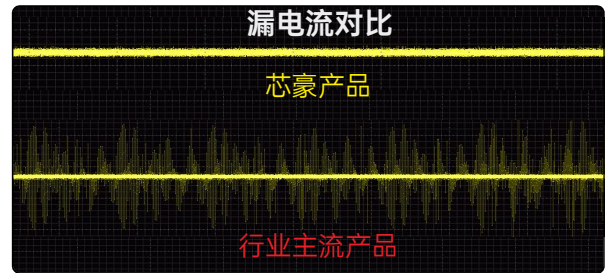
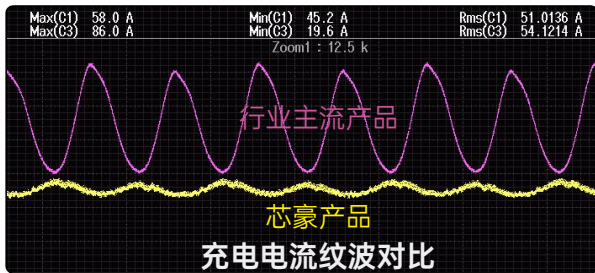


#### 产品特性

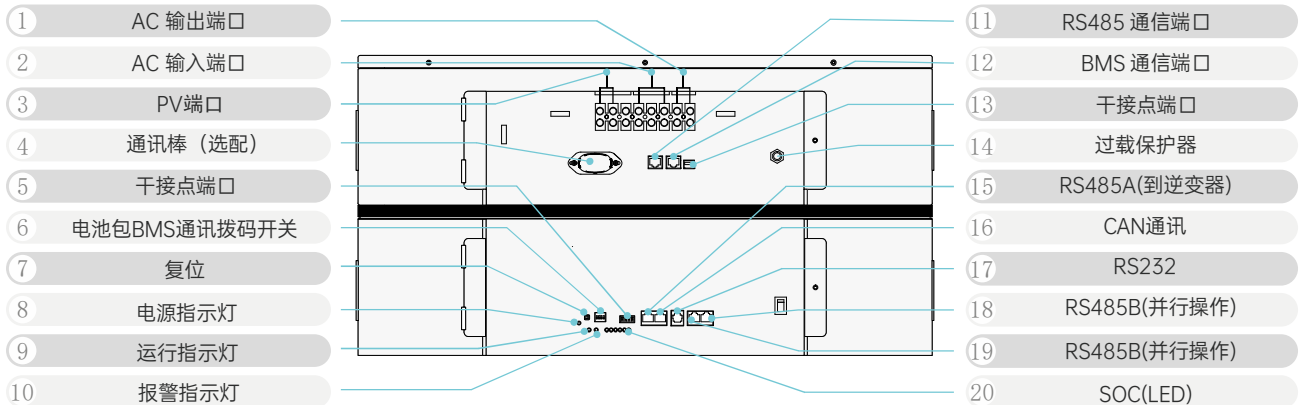
- 集成 MPPT 控制器，MPPT 效率高达 99.9%
- 拥有市电旁路、逆变器输出两种输出模式，具备不间断供电功能
- 四种充电模式可选：  
市电优先、光伏优先、混合充电、仅光伏
- 具备过载、短路、过欠压、过欠频、反灌等安全保护功能

#### 产品亮点

- 模块化堆叠设计，即插即用，安装便捷
- 优异充电电流控制技术，有效控制充电电流纹波
- 可设置光伏并网发电模式
- 可定制化设计，满足客户不同需求
- 智能电网自适应，支持弱电网情况下正常发电
- 模块化电池组，支持电池扩容，最高可达20.48kWh
- 适应性强：无电池亦可旁路输出，确保重要负载不断电
- 采用特殊逆变架构，可靠抑制漏电流，领先于行业
- 具备升维驱动功能，带载功率更大，带载种类更多
- 具备自动除尘功能



#### 产品特征介绍





## HS1050EL48L-5H~HS1050EL48L-20H产品参数

型号	HS1050EL48L-5H	HS1050EL48L-10H	HS1050EL48L-15H	HS1050EL48L-20H
<b>输出</b>				
额定输出功率	5500VA/5000W			
额定输出电压	230Vac ±4%			
额定输出频率	50/60Hz ±0.3(自适应)			
输出波形	纯正弦波			
转换效率	93.8%			
额定电流	22A			
切换时间	10ms(典型值)			
<b>交流输入</b>				
额定输入电压	220/230Vac			
频率范围	(47-55Hz) ±0.3 / (57-65Hz) ±0.3			
最大充电电流	60A			
输入电压范围	UPS Mains Mode: (170Vac~280Vac) ±2%; APLGenerator Mode: (90Vac~280Vac) ±2%			
<b>电池</b>				
电池类型	磷酸铁锂电池			
电池电压	51.2V (16S)			
电池容量	5.12kWh	10.24kWh	15.36kWh	20.48kWh
电池规格	100Ah	200Ah	300Ah	400Ah
最大充放电电流	100A			
放电深度	80%			
循环寿命	5000次充放电循环后电池剩余容量 > 80%			
<b>PV输入</b>				
最大PV输入功率	4500W			
最大PV开路电压	145Vdc			
MPPT电压范围	60~115Vdc			
最大PV输入电流	50A			
最大PV充电电流	80A			
<b>常规参数</b>				
尺寸 W*D*H(mm)	650*460*440	650*460*600	650*460*765	650*460*930
重量(kg)	83	131.5	181	230
通讯方式	RS485/干接点控制, 可选 WIFI/GPRS/4G			
<b>工作环境</b>				
工作环境温度	-10°C~55°C			
操作湿度	5%~95% 无凝露			
操作环境	室内			
<b>认证</b>				
安规认证	CE (IEC62109-1)			
EMC 认证	IEC/EN61000-6-1/3, CLASS B			
运输认证	UN38.3			

电池循环寿命为实验室25摄氏度环境下测得, 实际寿命由实际使用中电池温度决定。  
规格指标若有变动, 恕不另行通知。



# HOUSEHOLD ENERGY STORAGE SYSTEM

## ALL-IN-ONE ENERGY STORAGE SYSTEM (OFF-GRID)



### Application Scenarios

Scenarios of no power, lack of power, power instability area, no motor and other impact load scene

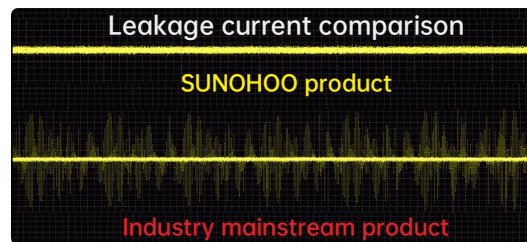
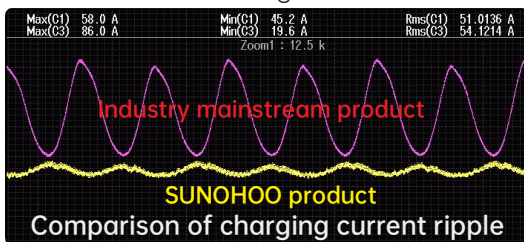


### Product Features

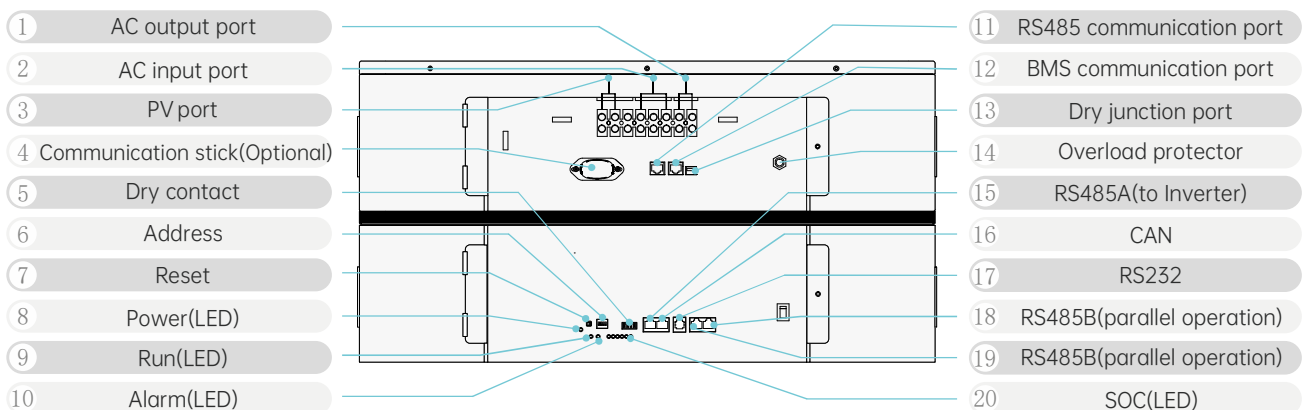
- ⊙ Integrated MPPT controller, with efficiency up to 99.9%.
- ⊙ With short circuit, under-voltage, overload, anti-reflux and other safety protection functions.
- ⊙ With two kinds of output modes(mains bypass & inverter output), it can supply the power uninterruptedly.
- ⊙ 4 types of charging modes are optional: mains priority, photovoltaic priority, hybrid charging, only solar energy

### Product Highlight

- ⊙ Modular stacking design, plug and play, convenient installation.
- ⊙ Adopt special inverter architecture to reliably suppress leakage current, leading the industry.
- ⊙ Excellent charging current control technology, effectively controlling the charging current ripple.
- ⊙ Can set the photovoltaic grid-connected mode.
- ⊙ Power grid self-adaptation, supporting normal power generation under weak grid conditions.
- ⊙ Modular battery pack, supporting battery expansion, up to 20.48kWh.
- ⊙ No battery, bypass output ensures uninterrupted power for critical loads.
- ⊙ Equipped with uphill driving function, with higher load power and more types of loads.
- ⊙ Customizable design to meet different customer needs.
- ⊙ With automatic dust removal function.



### Product Appearance





**HS1050EL48L-5H ~ 1050EL48L-20H SERIES**

MODEL	HS1050EL48L-5H	HS1050EL48L-10H	HS1050EL48L-15H	HS1050EL48L-20H
<b>Output</b>				
Rated Output Power	5500VA/5000W			
Rated Output Voltage	230Vac ±4%			
Rated Output Frequency	50/60Hz ±0.3(Adaptive)			
Output Waveform	Pure sine wave			
Efficiency(Peak)	93.8%			
Rated Current	22A			
Transfer Time	10ms(Typical value)			
<b>AC Input</b>				
Rated Input Voltage	220/230Vac			
Frequency Range	(47-55Hz) ±0.3 / (57-65Hz) ±0.3			
Max Charging Current	60A			
Input Voltage Range	UPS Mains Mode: (170Vac~280Vac) ±2%; APLGenerator Mode: (90Vac~280Vac) ±2%			
<b>Battery</b>				
Battery Type	LiFePO4			
Battery Rated Voltage	51.2V (16S)			
Battery Energy	5.12KWh	10.24KWh	15.36KWh	20.48KWh
Battery Capacity	100Ah	200Ah	300Ah	400Ah
Max Charing/Discharging Current	100A			
DOD	80%			
Designed Life-span	3000			
<b>PV Input</b>				
Max Input Power	4500W			
Max PV Open-circuit Voltage	145Vdc			
MPPT Voltage Range	60~115Vdc			
Max PV Input Current	50A			
Max PV Charing Current	80A			
<b>General Parameters</b>				
Dimension. W*D*H(mm)	650*460*440	650*460*600	650*460*765	650*460*930
Weight (kg)	83kg	131.5kg	181kg	230kg
Communication Mode	RS485/Dry contact control, Optional WIFI/GPRS/4G			
<b>Operating Environment</b>				
Operating Ambient Temperature	-10°C~55°C			
Humidity	5%~95% Non-condensation			
Operating Environment	Indoor			
<b>Certifications</b>				
Safety Certification	CE (IEC62109-1)			
EMC Certifications	IEC/EN61000-6-1/3,CLASS B			
Transport certification	UN38.3			

Specifications are subject to change without advance notice.