



户用储能系统

Household Energy Storage



离网光伏储能逆变器

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

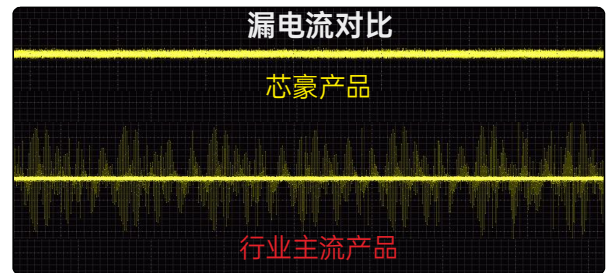
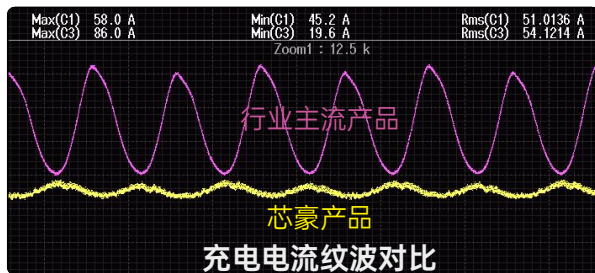


产品特性

- ◎ 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
- ◎ 兼容铅酸电池、锂电池、胶体电池等
- ◎ 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
- ◎ 可选 4G、WIFI 或 GPRS 远程通讯模块

产品亮点

- ◎ 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
- ◎ 优异充电电流控制技术，有效控制充电电流纹波
- ◎ 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
- ◎ 支持单相并网及三相组网并网，最大并网数可达10台
- ◎ 具备升维驱动功能，带载功率更大，带载种类更多
- ◎ 机器猫外观，新颖形象，活力亲切
- ◎ 可设置光伏并网发电模式
- ◎ 具备自动除尘功能



产品特征介绍





HS030 ~ 050ELS/ELSP系列产品参数

型号	HS030ELS	HS040ELS	HS050ELS	HS050ELSP
电池电压	48Vdc	48Vdc	48Vdc	48Vdc
电池类型	铅酸电池、锂电池、胶体电池等			
输出				
额定输出功率	3000VA/3000W	4000VA/4000W	5000VA/5000W	5000VA/5000W
并网功能	不支持	不支持	不支持	支持, 最多 10 台
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	13A	18A	22A	22A
切换时间	10ms(典型值)			
PV 输入				
最大输入功率	3200W	4500W	4500W	4500W
MPPT 电压范围	60~115Vdc			
最大输入电压	145Vdc			
最大充电电流	60A	80A	80A	80A
PV 防反功能	有			
交流输入				
最大充电电流	30A	60A	60A	60A
交流输入电压范围 (UPS 模式)	170~280Vac, ±2%			
频率范围	(47-55Hz) ±0.3 / (57-65Hz) ±0.3			
电池输入				
电压范围	40~60Vdc			
最大充电电流	90A	140A	140A	140A
默认充电电流	30A	30A	30A	30A
常规参数				
尺寸 W*D*H (mm)	470*330*125			
安装方式	壁挂式			
重量 (kg)	12	12	12	12
通讯方式	RS485/ 干接点控制, 可选 WIFI/GPRS/4G			
工作环境				
工作环境温度	-10°C~55°C			
储存环境温度	-20°C~60°C			
相对湿度	5%~95% 无凝露			
海拔高度	< 2000m			
防护等级	IP20			
认证				
安规认证	CE (IEC62109-1)			
EMC 认证	IEC/EN61000-6-1/3, CLASS B			

规格指标若有变动, 恕不另行通知。



HOUSEHOLD ENERGY STORAGE SYSTEM

OFF-GRID SOLAR INVERTER



Application Scenarios

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

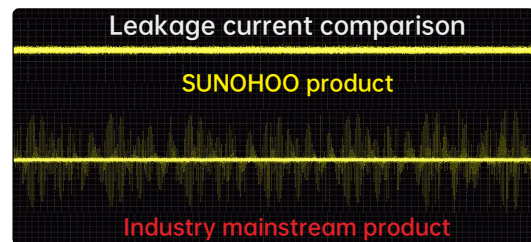
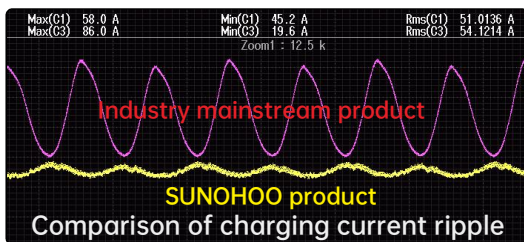


Product Features

- © Integrated MPPT controller, with efficiency up to 99.9%.
- © With short circuit, under-voltage, overload, anti-reflux and other safety protection functions.
- © Compatible with lead-acid, lithium batteries, gel batteries, etc.
- © 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
- © RS485, WIFI or GPRS telecommunication modules are optional

Product Highlight

- © 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.
- © Equipped with uphill driving function, with higher load power and more types of loads.
- © With automatic dust removal function.
- © No battery, bypass output ensures uninterrupted power for critical loads.
- © The Maximum Supports up to 10 parallel machines, and three-phase group grid.
- © Power grid self-adaptation, supporting normal power generation under weak grid conditions.
- © The appearance is like a robotic cat, lively and friendly.
- © Customizable design to meet different customer needs.



Product Appearance





HS030ELS~050ELS/ELSP SERIES

MODEL	HS030ELS	HS040ELS	HS050ELS	HS050ELSP
Battery Voltage	48Vdc	48Vdc	48Vdc	48Vdc
Battery Type	Lead-acid, lithium batteries, gel batteries, etc			
Output				
Rated Output Power	3000VA/3000W	4000VA/4000W	5000VA/5000W	5000VA/5000W
Parallel Function	N/A	N/A	N/A	Yes, up to 10 units
Rated Output Voltage	230Vac ±4%			
Rated Output Frequency	50/60Hz ±0.3(Adaptive)			
Output Waveform	Pure sine wave			
Efficiency(Peak)	93.8%			
Rated Current	13A	18A	22A	22A
Transfer Time	10ms(Typical value)			
PV Input				
Max Input Power	3200W	4500W	4500W	4500W
MPPT Voltage Range	60~115Vdc			
Max Input Voltage	145Vdc			
Max Charging Current	60A	80A	80A	80A
PV Countercurrent Protection	Yes			
AC Input				
Max Charging Current	30A	60A	60A	60A
AC Input Voltage Range (UPS mode)	170~280Vac, ±2%			
Frequency Range	(47-55Hz) ±0.3 / (57-65Hz) ±0.3			
Battery Input				
Voltage Range	40~60Vdc			
Max Charging Current	90A	140A	140A	140A
Default Charging Current	30A	30A	30A	30A
General Parameters				
Dimension. W*D*H(mm)	470*330*125			
Installation Method	Wall-mounted			
Weight (kg)	12	12	12	12
Communication Mode	RS485/Dry contact control, Optional WIFI/GPRS/4G			
Operating Environment				
Operating Ambient Temperature	-10°C~55°C			
Storage Ambient Temperature	-20°C~60°C			
Humidity	5%~95% Non-condensation			
Altitude	< 2000m			
Protection Degree	IP20			
Certifications				
Safety Certification	CE (IEC62109-1)			
EMC Certifications	IEC/EN61000-6-1/3, CLASS B			

Specifications are subject to change without advance notice.