



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	
通讯接口	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	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Wi-Fi	Wi-Fi	<input type="checkbox"/> YES <input type="checkbox"/> NO	
电网防逆流装置	Grid Anti-reverse Current Device CT	<input type="checkbox"/> YES <input type="checkbox"/> NO	