



GYS 250H

微电网逆控一体机

Microgrid all-in-one inverter/controller



内部集成PCS、MPPT、EMS、PCM并离网切换开关、交直流配电单元。支持柴发、光伏、电池接入。高防护IP54等级适应多种应用场景，主要应用于光储柴微电网、柴储备用矿电源等，支持多台并机。应用场景：光储备微电网、储备电源、应急电源、柴储、施工工地、油田开采、野外施工等。

Internally integrated PCS, MPPT, EMS, PCM, on/off-grid transfer switch, and AC/DC distribution unit. Supports diesel generator, PV, and battery connection. High protection rating of IP54, adaptable to a variety of application scenarios — mainly used in solar-diesel-storage microgrids, diesel-storage backup power for mining, etc. Supports parallel operation of multiple units. Application scenarios: solar-storage microgrids, backup power, emergency power, diesel-storage systems, construction sites, oilfield extraction, remote field operations, etc.

- 并离网快速切换10ms
- 多路直流耦合，充电效率大于99.3%
- 油机混动，构网运行
- 高防护等级（IP54）
- 内置防逆流、自发自用、前峰填谷
- 支持多机并联
- ALL IN ONE设计，快速部署、现场调试简单，即插即用
- 集成EMS管理系统，多种能源智能调配
- On/Off-Grid Fast Switching – 10ms
- Multi-channel DC Coupling – Charging efficiency > 99.3%
- Generator Hybrid Operation – Grid-forming operation
- High Protection Rating – IP54
- Built-in Anti-Reverse Power, Self-Consumption, and Peak Shaving & Valley Filling
- Supports Parallel Operation of Multiple Units
- All-in-One Design – Quick deployment, simple on-site commissioning, plug-and-play
- Integrated EMS Management System – Intelligent dispatch of multiple energy sources



产品规格	Product Specifications	GYS 250H
交流侧(并网) AC side (grid-tied)		
额定功率	Rated power:	250kW
额定输出电流	Rated output current	362A
额定输出电压	Rated output voltage	400V/230V(3P4L)
电压范围	Voltage range	-20%~15%
频率范围	Frequency range:	50Hz(47Hz~52Hz)/60Hz(57Hz~62Hz)
并网不平衡度	Grid-connected unbalance factor	125%
电流谐波	Current harmonics	<3%
功率因数	Power factor	-1~1
交流侧(离网) AC side (off-grid)		
最大输出功率	Maximum output power	275kW
最大输出电流	Maximum output current	398A
额定输出电压	Rated output voltage	400V/230V
输出频率	Output frequency	50/60Hz
不平衡度	Unbalance factor	100%
输出电压谐波	Output voltage harmonics	<3%(resistive load)
过载保护	Overload protection:	110%, Normal/125%, 60s
电池侧 Battery side		
电池电压范围	Battery voltage range	680~900Vdc
最高电池电压	Maximum battery voltage	950Vdc
最低电池电压	Minimum battery voltage	680Vdc
最大电池电流	Maximum battery current	400A
光伏侧 PV side		
最大光伏容量	Maximum PV capacity	120KW*2
MPPT输入电压范围	MPPT input voltage range	600~900V
最低PV电压	Minimum PV voltage	950V
最高PV电压	Maximum PV voltage	200V
最大输入电流	Maximum input current	200A*2
MPPT输入开关	MPPT input switch	2
系统参数 System parameters		
并离网切换时间	Grid-tied / off-grid transfer time	Active:0ms/Passive:<10ms
旁路能力	Bypass capability	500A
最大并机数量	Maximum number of parallel units	3Pcs
EMS系统	EMS system	SOC均衡、削峰填谷、自发自用、余电上网、云平台、防逆流、油电混动 SOC balancing/peak shift/self-use/export excess/cloud/no export/hybrid
工作温度	Operating temperature	-25~60°C(derating above 45°C)
相对湿度	Relative humidity:	0~95%无冷凝 no cond
海拔高度	Altitude (m)	≤4000m(derating above 2000m)
冷却方式	Cooling method	Intelligent Forced Air Cooling
防护等级	Protection rating	IP54
产品尺寸(mm)	Product dimensions (mm)	1000*973*1800
重量(kg)	Weight (kg)	550