



GYS 100/150HS

# 微电网 逆控一体机

Microgrid all-in-one  
inverter/controller



内部集成PCS、MPPT、EMS、PCM并网切换开关、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：光储柴微电网、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.

- 集成光伏 / MPPT模块 / 变压器 / STS和维护旁路
- 支持100%不平衡带载
- 支持多机并联
- 全球首发MPPT自适应升降压技术，可灵活配置光伏容量
- 支持柴发负载率控制，提高燃油经济性
- 支持灵活配置控制策略
- 油机混动，构网运行
- 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
- Integrated PV / MPPT module / Transformer / STS (Static Transfer Switch) and maintenance bypass
- Supports 100% unbalanced load
- Supports parallel operation of multiple units
- World's first MPPT adaptive buck-boost technology – flexible configuration of PV capacity
- Supports diesel generator load rate control – improves fuel economy
- Supports flexible configuration of control strategies
- Generator hybrid operation – grid-forming operation
- 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 100HS	GYS 150HS
<b>交流(并网)</b>	AC (grid-tied)		
最大输出功率(kW)	Max output power (kW)	110	165
额定输出功率(kW)	Rated output power (kW)	110	150
额定电网电压(V)	Rated grid voltage (V)	400	400
电网电压范围(V)	Grid voltage range (V)	320~460	320~460
额定输出电流(A)	Rated output current (A)	144	216
额定电网频率(Hz)	Rated grid frequency (Hz)	50/60	
电网频率范围(Hz)	Grid frequency range (Hz)	45~55/55~65	
THDI	THDI	<3%	
功率因数	Power factor	1超前-1滞后(可设置) 1 lead ~ 1 lag (adj.)	
电网类型	Grid type	3W+N+PE	
<b>交流(离网)</b>	AC (off-grid)		
最大输出功率(kW)	Max output power (kW)	110	165
额定输出功率(kW)	Rated output power (kW)	100	150
额定输出电压(V)400	Rated output voltage (V) 400	400	
额定输出电流(A)	Rated output current (A)	144	216
THDu	THDu	<1%线性 linear;或<5%非线性 non-linear	
额定输出频率(Hz)	Rated output frequency (Hz)	50/60	
过载能力	Overload capability	110%长期 continuous,120%1 min	
<b>光伏输入</b>	PV input		
最大光伏输入电压(V)	Max PV input voltage (V)	1000	1000
最大光伏功率(kW)	Max PV power (kW)	165/247.5	165/247.5/330
MPPT模块数量	Number of MPPT modules	2/3	2/3/4
MPPT电压范围(V)	MPPT voltage range (V)	250-1000	250-1000
<b>电池</b>	Battery		
电池电压范围(V)	Battery voltage range (V)	420~950	420~950
最大充电功率(kW)	Max charge power (kW)	110	165
<b>常规参数</b>	General parameters		
尺寸W*D*H (mm)	Dimensions W×D×H (mm)	1200*800*2050	
重量(kg)	Weight (kg)	1120/1150	1250/1280/1310
工作温度范围(°C)	Operating temp. range (°C)	-30~ +55	
相对湿度	Relative humidity (no cond)	0-95%无冷凝 no cond	
防护等级	Protection rating	Ip210	
噪音(dB)	Noise (dB)	<70	
工作海拔高度(m)	Operating altitude (m)	>3000功率降额 Derating	
冷却方式	Cooling method	强制风冷 Forced air	
<b>显示和通讯</b>	Display & communication		
显示屏:	Display:	液晶触摸屏 LCD	
BMS通讯	BMS communication	RS485,CAN	
EMS通讯	EMS communication	RS485,TCP/IP	