

YJC-EMGS100-MS/YJC-EMGS100-MHS/YJC-EMGS125-MS/YJC-EMGS125-MHS

100KW/125KW C&I HYBRID INVERTER

Supports 3-phase 4-wire output and enables transformer-free off-grid operation with load.

Integrated circuit breakers for each system unit ensure overall system safety.

Flexible configuration of DC capacity and input types to meet diverse application needs.

IP55-rated for water and dust protection, allowing direct outdoor installation.

Modular design allows flexible, on-demand configuration with high system availability.

Supports multi-cabinet parallel connection.

Supports VSG (Virtual Synchronous Generator) mode for seamless integration with diesel generators and grid systems.

Integrated EMS supports diesel generator and grid connection, compatible with multiple control strategies, and can interact with various BMS and fire protection systems.



Product model	YJC-EMGS100-MS	YJC-EMGS100-MHS	YJC-EMGS125-MS	YJC-EMGS125-MHS
INPUT(PV)				
PV Max. Open Circuit Voltage	900V			
MPPT Operating Voltage Range	180V ~ 800V			
MPPT Ouantity	2	2(1~4 optional, default 2)	2	2(1~4 optional, default 2)
Max.Input Power	50kW*2	50kW * 2 (default)	50kW*2	50kW * 2 (default)
INPUT (BATTERY)				
Battery type	Lithium-ion battery			
Max. Charging Power	110kW	150kW	110kW	187.5kW
Max. Discharging Power	110kW	110kW	110kW	137.5kW
Operating Voltage Range	250V ~ 820V	680V ~ 950V	250V ~ 820V	680V ~ 950V
Max. Charging Current	200A	225A	200A	225A
Max. Discharging Current	200A	178A	200A	224A
AC SIDE(GRID-TIED)				
Grid Connection Type	Three-phase three-wire/four-wire			
Rated Output Power	100kVA		125kVA	
Max.Output Power	110kVA		137.5kVA	
Max.Grid Input Power	200kVA		250kVA	
Rated Grid Frequency	50/60Hz			
Max.Input Current	288A		360A	
Max.Output Current	158A		198A	
Overload Capacity	110% continuous			
Power Factor	0.99/-1~1			
Total Current THD	<3%			
LOAD SIDE (OFF-GRID)				
Rated Output Power	100kVA		125kVA	
Recommended Load Power	70kVA		88kVA	
Max.Output Power	110kVA		137.5kVA	
Max.Output Current	158A		198A	
Rated Output Voltage	400V			
Rated Output Frequency	50/60Hz			
Output Voltage THD (@Linear Load)	< 3%			
SYSTEM PARAMETERS				
Features& Protections	Islanding protection, Reverse polarity protection, insulation monitoring, DC surge protection, Ac surgeprotection, DC short-circuit protection, Ac overcurrent protection, AC short-circuit protection, ACunder/over voltage protection,Residualcurrent detection			
OperatingTemperature	-30°C ~ 60°C(derating above 45°C)			
Operating Humidity	5%~95% RH non-condensing			
Altitude	4000m (deratinga bove 2000m)			
Cooling system	Intelligent air cooling			
Communication	Ethernet /4G /RS485 /CAN			
Weight	< 500kg			
Dimensions (W x H x D)	800 × 2000 × 1100mm			
Protection Rating	IP55			
Protection Rating	I			
Overvoltage Category	II(DC side),III (Ac side)			

**For EMGS100/125-MS: PV OCv ≤900V; For EMGS100/125-MHS: PV OcVs Battery min. voltage +30V