



GGIV-1P SERIES

- 1P-10 KW

- 1P-12 KW

Hybrid Solar Inverter



Pure
Sinewave



WIFI



Two Way Energy
Storage Design



Configurable
Working Mode



Support Working
Without Battery



RS485

MODEL	GGIV-1P-10KW		GGIV-1P-12KW	
PV Input				
Max PV Input Power	6000W*2		6000W*2	
MPPT Tracking Voltage Range	80Vdc~450Vdc			
Rated Voltage	360Vdc			
Max PV Input Voltage voc (at the lowest temperature)	500Vdc			
Max PV Input Current	22A*2		27A*2	
Number of MPPT	2			
Battery & Charging				
Battery Type	Lead-acid Battery/Lithium Battery			
	Custom Battery (Charging and discharging parameters of different type of batteries can be set through the operation board)			
Rated Battery Voltage (DC Input)	48Vdc			
Charging Current	238.4A		284.7A	
Max PV Charging Current	180A		200A	
Max AC Charging Current	120A		140A	
Max Charging Current	180A		200A	
On-Grid Operations (AC Output)				
Rated Output Power	10KW		12KW	
Rated Output Voltage	230Vac			
Output Impedance	1Φ			
Rated Output Frequency	50Hz / 60Hz			
Rated Output Current	44.5A		52.2A	
Power Factor	>0.98(Rated Power)			
Off-Grid Operation (AC Input)				
Rated Input Voltage	230V			
Input Impedance	1Φ			
Rated Input Frequency	50Hz / 60Hz			
Max Input Current	77.2A		91.3A	
Off-Grid Operation (AC Output)				
Rated Output Power	10KW		12KW	
Rated Output Voltage	230V			
Output Voltage Accuracy	±2%			
Rated Input Frequency	50Hz / 60Hz			
Output Frequency Accuracy	±1%			
Output Wave	Pure Sine Wave			
Hybrid Operation (AC Input)				
Rated Input Voltage	230V			
Input Impedance	1Φ			
Rated Input Frequency	50Hz / 60Hz			
Max Input Current	77.2A		91.3A	
Hybrid Operation (AC Output)				
Rated Output Power	10KW		12KW	
Rated Voltage Rated	230V			
Output Current	44.5A		52.2A	
Regular Parameters				
Maximum Conversion Efficiency (Battery Discharge)	94% (Peak Value)			
MPPT Tracking Efficiency	≥99.9			
Transfer Time	10ms (Typical Value)			
Display	LCD+LED			
Cooling Method	Cooling fan in intelligent control			
Communication	RS485/Mobile APP(WIFI Monitoring or GPRS Monitoring) (Optional)			
Protection Degree	IP20			
Installation	Wall-Mounted			
Protect				
Battery Low Voltage Alarm	44Vdc (default value)			
Battery Low Voltage Protection	42Vdc (default value)			
Anti-Islanding Protection	≥2S			
Overload Power Protection	Automatic Protection (battery mode), Circuit Breaker or Insurance (AC mode)			
Output Short Circuit Protection	Automatic Protection (battery mode), Circuit Breaker or Insurance (AC mode)			
Temperature Protection	>90 ⁰ C (turn off inverter and charging)			
Environment				
Operating Temperature	-10C~50 ⁰ C			
Storage Temperature	-15C~60 ⁰ C			
Noise	≤ 55dB			
Elevation	2000m (More than derating)			
Humidity	0%~95 ⁰ C, No condensation			
Dimensions And Weight				
Product Size (L*W*Hmm)	535*462*117		630*540*130	
Package Size (L*W*Hmm)	630*557*212		730*635*225	
N.W. (kg)	14.7		22	
G.W. (kg)	17		25	