PV INVERTER & CONTROLLER INTEGRATED MACHINE

Three phase power-frequency GSA model series

Product introduction

Solar photovoltaic control and inverter integrated power supply is a new generation of special power supply for new energy power generation systems. It is mainly designed and manufactured according to the characteristics and requirements of new energy power generation systems, and is suitable for solar photovoltaic power generation systems. High quality and high reliability requirements of power supply equipment. The system uses photovoltaic cells to convert light energy into electric energy, and charges the battery through the charging circuit. At the same time, the battery supplies power to the inverter part, and the inverter part supplies the AC power to the AC load.

This series control inverter integrated power supply, with wide input DC voltage and constant output voltage and frequency. The products are widely used in households, substations, communication service industries or comprehensive system power generation, etc., and can realize real-time and online observation of remote data through remote communication functions. They are the core products in modern new energy power generation systems.

Performance characteristics

- Advanced DSP digital control technology can effectively improve product performance and system reliability
- Excellent industrial environment protection performance
- Perfect protection function to provide safe and reliable power protection for the load
- Intelligent battery management function, can effectively detect whether the battery is good or bad, prolong the battery life
- Economical and safe mode operation can make the whole machine more efficient than 98%
- High-performance large-screen LCD interface, intuitive and convenient operation
- Powerful communication interface and network remote monitoring, etc.
- A wealth of optional accessories, which can be flexibly configured according to actual needs

Technical parameters

Model	GSA-10KVA3	GSA-20KVA3	GSA-30KVA3	GSA-40KVA3	GSA-50KVA3	GSA-60KVA3
Nominal capacity	10KVA	20KVA	30 KVA	40 KVA	50 KVA	60 KVA
AC input						
Phase	Three phase+N+G					
Volt range	380/400VAC±20%					
Frequency range	50/60Hz±5%					
Soft-start	0～100%　5sec					
PV input						
MPPT volt range	230—450VDC					
Max. Open circuit volt	480VDC					
Input paths	1/2					
Rated power	10KW/20KW					
Full charge protection volt	The battery voltage can be set according to the actual configuration					
Floating volt	The battery voltage can be set according to the actual configuration					
DC						
Nominal volt	192/220/240VDC					
Inverter						
Phase	Three phase+N+G					
Nominal volt	380VAC/400VAC					
Nominal frequency	50±0.5 Hz（Powered on by battery）					
Frequency Stability	＜±0.5 Hz (Battery mode)					
Peak factor	3：1					
Output wave	Pure sine wave					
THD	Line load＜3%；Non-line load＜5%					
voltage transient	＜±3%（steady state load），＜±5%（dynamic load）					
Over-load ability	125% 10min，150% 1min					
System						
Communication interface	RS232/RS485(USB、Network remote monitoring Option）					
interface and instructions	7-inch color touch screen, LED status indication, dry contact					
Operating environment	Temperature: 0～40℃; Relative Humidity: 20%～90% (non-condensing); <1000 meters (power decreases by 1% for every 100 meters, maximum 4000 meters)					
cooling method	Forced ventilation					
Noise dB	（According to load size and ambient temperature）40～65					
Size (W×D×Hmm）	600*600*1600			800*600*2000		

The above data are for reference only and are subject to change without prior notice. Special voltage can be customized.