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PV INVERTER&CONTROLLER INTEGRATED

Three phase power frequency PSA Series

Product introduction:

The solar photovoltaic control inverter integrated power supply is a new generation o dedicated 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 the high quality and high reliability requirements of solar photvoltaic power generation systems for power supply equipment.The system uses photovoltaic cells to convert light energy into electrical energy, and charges the battery through the charging circuit. At the same time, the battery supplies power to the inverter, and the inverter provides AC power to the AC load.

Performance characteristics

Advanced DSP digital control technology can effectively improve product performance and system reliability
Excellent industrial environment protection pefformance
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

Series	PSA					
Output power(KVA)	10	20	30	40	50	60
AC Input						
Phase	Three phase+N+G					
Volt range(VAC)	380/400/415±20%					
Frequency (Hz)	50/60±5%					
Soft-start	0~100% 5sec					
PV Input						
MPPT volt range (VDC)	230-450					
Max.Open circuit volt(VDC)	480					
Input paths	1/2					
Max.Input power(kWp)	12/24					
Full charge protection volt	The battery voltage can be set according to the actual configuration					
Charging voltage(VDC)	216/243/270(Settable)					
DC						
Nominal volt(VDC)	192/220/240					
Inverter						
Phase	Three phase+N+G					
Nominal volt(VAC)	380/400/415					
Nominal frequency(Hz)	50±0.5 (Powered on by battery)					
Frequency stability(Hz)	<±0.5 (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% 10mins, 150% 1min					
System						
Communication interface	RS485(RS232, Network remote monitoring Option)					
Interface and instructions	7-inch color touch screen, LED status indication, dry contacts(optional)					
Operating environment	Temperature:0-40°C; Humidity:20%~90% (non-condensing);<1000 meters (power decreases by 1% per 100 meters					
Cooling method	Forced ventilation					
Noise(dB)	40-65					
Size(D*W*H)mm	600*600*1600			600*800*2000		