



OFF GRID INVERTER

Single-phase power frequency PSI Series



Product introduction:

PSI series inverter power supply is the fourth generation power frequency intelligent inverter power supply developed with new digital technology. The system adopts SPWM pulse width modulation technology, IGBT power module and output isolation transformer, so that the output of the inverter power supply is a pure sine wave power supply with stable frequency and voltage regulation, filtering noise and low distortion. It has the characteristics of strong load capacity, good load compatibility, and wide DC input voltage range, which greatly meets the needs of various electrical environments. The perfect protection device improves the stability of the system operation; the user-friendly LCD liquid crystal interface design enables man-machine communication zero-distance.

Performance characteristics

- Pure sine wave output, sufficient power output
- Protection function: output overload protection; output short circuit protection; input over/under voltage, over temperature protection and a series of alarm and protection
- Power frequency circuit design, good system stability, low failure rate and long life
- Good transient response, low waveform distortion, high inverter efficiency, stable output voltage, and excellent EMI indicators; this series of products have strong load resistance and load capacity. In addition to driving various resistive loads, they can also load all kinds of inductive devices, such as motors, air conditioners, electric drills, etc; it can drive almost all loads.
- Intelligent empty load automatic sleep function

Series	PSI96	PSI220
Output power (KVA)	6/8	6/10/15/20/25/30
Battery		
Rated voltage (VDC)	96	220
Under voltage protection value (VDC)	86.4	194.4
Under voltage recovery value (VDC)	104	234
Over voltage protection value (VDC)	124	279
Over voltage recovery value (VDC)	120	270
Mains bypass (optional)		
Input voltage allowable range (VAC)	220±15%	
Input frequency (Hz)	50/60±3%	
Mains charging	Optional	
AC output		
Output waveform	Pure sine wave	
Output voltage (VAC)	220±1%	
Output frequency (Hz)	50/60±1%	
Output waveform distortion rate (THD)	≤2% (Liner load)	
Inverter efficiency	≥85%	
Current peak factor	3:1	
Overload capacity	105%-110%; 10min; 110%-125%, 1min > 125%, 1s	
Display method	LCD+LED	
Protective function	Input reverse connection, input undervoltage, overvoltage, overload, short circuit, overheating protection	
Communication function	RS485/GPRS (Optional)	
Environment		
Protection level	IP20	
Operating altitude (m)	≤5000 (1% derating for ever 100m above 1000m)	
Humidity	<95% No condensation	
Environment temperature (°C)	-10~+40	
Noise (dB)	≤50	
Volume and weight		
Dimensions(D*W*H) mm	645*305*770	645*305*770/700*405*980
Weight (KG)	75-85	55-100/135-155