



## PV INVERTER&CONTROLLER INTEGRATED

### Single-phase power frequency PSA Series



#### Product introduction:

The photovoltaic control and inverter integrated is a new type of photovoltaic power generation device that organically combines a photovoltaic charge controller and an inverter.

It consists of a charge controller, an inverter and a protection circuit, and the output is a pure sine wave voltage. It has the advantages of small total installation space, few connection lines, safety and reliability.

Photovoltaic charge controller is a high-performance step-down device that uses MPPT (Maximum Power Point Tracking) algorithm to make full use of solar photovoltaic energy. The PV input voltage range is wide, which can charge a variety of batteries, and the three-stage charging effectively improves the life of the battery.

#### Performance characteristics

MPPT solar charging controller, which can make the most use of solar photovoltaic

Three-stage charging, effectively prolonging the life of the battery

It has the functions of power generate record, Event recording, Time switch, Auto sleep function

Photovoltaic priority or utility power priority mode can be set by users

Pure sine wave output & completely protection

Low frequency circuit design, good system reliability, low breakdown rates and long life time

Higher ability to anti-attack from the loads

Supporting city power/ Diesel generator input port (Optional)

AC charger function (Optional)

Series	PSA96	PSA192/220
Output power(KVA)	6/8	6/10/15/20/25/30
<b>Battery</b>		
Rated voltage(VDC)	96	192/220
<b>PV Input</b>		
Maximum input power(KWP)	6	12/24
Maximum charge current	50/100	
Start voltage(VDC)	120	270
Mppt voltage range(VDC)	110-280	260-450
Maximum open circuit voltage(VDC)	300	480
<b>AC bypass(Optional)</b>		
Allowable input voltage range(VAC)	220±15%/110±5% (Other input voltage can be customized)	
Input frequency(Hz)	50/60±3%	
AC charger	Optional	
<b>AC Output</b>		
Output waveform	Pure Sine Wave	
Output voltage(VAC)	220±1%/110±1% (Other output voltage can be customized)	
Output Frequency(HZ)	50/60±1%	
Output wave form distortion rate(THD)	≤2%(Liner Load)	
Convert Efficiency (80% Resistive load)	≥85°C	
Current Peak Factor	3:1	
Overload Ability	105-110%,600Seconds;110-125%,60Seconds;>125%,1Second	
Display method	LCD+LED	
Protection	Input reverse, low voltage, over voltage protection; Output overload, short circuit, over hating protection	
Communication Function	Optional	
<b>Surroundings</b>		
Protective level	IP20	
Applied Altitude(m)	≤5000 (above 1000meters, rated power derating 1% every 100meters)	
Humidity	<95% Non-condensation	
Environment temperature(°C)	-10~50	
Noise(dB)	≤60	
<b>Appearance</b>		
Dimensions(D*W*H)mm	640*305*770	700*405*980
Weight(KG)	80-85	55-155