



## PV INVERTER&CONTROLLER INTEGRATED

### High frequency PST series



#### Product introduction:

The PST series inverter control integrated is a pure sine wave photovoltaic off-grid power generation equipment that integrates the functions of a photovoltaic controller, a mains charger and a high-frequency inverter. The battery is charged through the controller or mains charger, and the battery supplies power to the inverter, which then supplies AC power to the AC load.

#### Performance characteristics:

- Small size and light weight
- High efficiency
- Pure sine wave inverter
- Selectable voltage input range, inverter output voltage can be used for home and PC
- The priority of AC, solar battery charging can be set through LCD settings
- Compatible with mains voltage or generator power supply
- Auto restart function, can be not guarded
- Overload and short circuit protection

Model	PST48-3K	PST48-5K
Output voltage(kVA)	3	5
<b>Battery type(Optional)</b>		
Rated voltage(VDC)	48	
Under voltage protection point(VDC)	Lead-acid battery 42, lithium battery 45(default setting)	
Under voltage recovery point(VDC)	Lead-acid battery 51.2, lithium battery 50(default setting)	
Over voltage protection point(VDC)	lead-acid battery 58, lithium battery 53(default setting)	
Over voltage recovery point(VDC)	Lead-acid battery 56, lithium battery 51(default setting)	
<b>PV input</b>		
PV input power(Wp)	3000	
Way of working	MPPT	
Starting voltage(VDC)	>66	
Voltage range(VDC)	70-256	
Maximum open circuit voltage(VDC)	256	
Float voltage(VDC)	Lithium battery 54	
Equalizing Voltage(VDC)	Lead-acid battery 55/lithium battery 52.2	
<b>Mains bypass (optional)</b>		
Input voltage allowable range(VAC)	220±15%	
Input frequency(Hz)	50/60±1%	
<b>Mains charging (optional)</b>		
Mains charging current(A)	10	
<b>AC output</b>		
Output waveform	L+N pure sine wave	
Output voltage(VAC)	220±3%	
Output frequency(Hz)	50/60±1%	
Output waveform distortion(THD)	≤5%(linear load)	
Inverter efficiency	≥1%	
Overload capacity	110%1min	
Display method	LCD+LED/LED	
Protective function	under voltage, over voltage, overload, short circuit, overheat	
<b>Environment</b>		
Protection class	IP20	
Altitude(m)	≤5000 (1% derating for every 100m above 1000m)	
Allowable relative humidity	<95% Non-condensing	
Ambient temperature(°C)	-10/+40	
Noise(dB)	≤50	
<b>Communication</b>		
Communication method	CAN, 232, 485, Wi-Fi, GPRS	
Max. Size(D*W*H)mm	130*400*520	130*360*580
Weight(kg)	8	9