

# SE1-SPT-6K



**SE1-SPT-6K**  
**6.0kW/7.0kW**

## Features



**Support 150% oversized PV power**  
Excess energy to battery



**Fast charging and high power discharge**  
Max 30A charging & discharge current



**Remote units control & upgrading function**  
External control communication interface



**Working under extremely cold condition**  
Working in full load under extreme cold temp  $-25^{\circ}$



**On grid parallel use**  
Inverter on&off grid parallel to support higher power loads



**Split phase 120V/240V in-built**  
Support split phase 120V/240V rated output





# SE1-SPT-6K 6.0 /7.0kW

## SE1-SPT-6K

## SE1-SPT-7K

	SE1-SPT-6K	SE1-SPT-7K
<b>INPUT PV</b>		
Max.recommended PV panel power[W]	9000	10500
Max.DC voltage[V]		500
Norminal DC operating voltage[V]		390
Max. input current(per mppt)[A]		14/14/14
Max. short circuit current(per mppt)[A]		16/16/16
MPPT voltage range[V]		70-450
Start output voltage[V]		90
No. of MPP trackers		3
Strings per MPP tracker		1
<b>BATTERY</b>		
Battery voltage range[V]		100-480
Max.charge/discharge current[A]		30
Communication interfaces		CAN/ RS485
Reverse connect protection		YES
<b>OUTPUT / INPUT AC</b>		
Rated grid voltage(AC voltage range)[V]		1 $\phi$ 3W 120/240
Rated grid Frequency[Hz]		50/60
Norminal AC outpout power[W]	6000	7000
Max. apparent AC output power[VA]	6000	7000
Norminal AC current[A]	25	29.2
Max. AC current[A]	29.5	29.5
Max. apparent AC input power[VA]	9300	9300
Max. AC input current[A]	39	39
Displacement power factor		0.8 leading to 0.8 lagging
Total harmonic distortion(THDi, rated power)		<5%
<b>EPS OUTPUT(WITH BATTERY)</b>		
EPS rated voltage[V]		1 $\phi$ 3W 120/240
EPS rated Frequency[Hz]		50/60
EPS rated power[VA]	6000	7000
EPS rated current	25	29.2
EPS peak power[VA]		100%~110%,10min;110%~120%, 1min;cannot exceed 120%
Total harmonic distortion(THDv, linear Load)		<5%
<b>EFFICIENCY</b>		
MPPT efficiency		99.90%
Max. efficiency from PV to AC		96.5%
Max. efficiency from PV to Battery		97.4%
Max. efficiency from Battery to AC		96.0%
Max. efficiency from AC to Battery		96.0%
<b>STANDARD</b>		
Safety		UL1741
<b>ENVIRONMENT LIMIT</b>		
IP class		IP65
Protection class		Class I
Operating temperature range [°C]		-25°C~+60°C (derating at +45°C)
Storage temperature[°C]		-25~+60°C
Humidity[°C]		0~100 (condensing)
Altitude[m]		<2000
Noise emission(typical)[dB]		<30
Over voltage category		III(AC), II(DC)
<b>Other</b>		
Cooling concept		Natural cooling
Topology		Transformerless
Communication		RS485、 Pocket wifi、 Pocket LAN、 CT*2、 Dry contact(both for input and output)
<b>DIMENSION AND WEIGHT</b>		
Dimensions of inverter[mm]		502*502*200
Inverter net weight[kg]		31

\*Can be modified without notice.(V1)

This model is only available for the area with split phase