



# NEW FROM SOLAX

## X1-SPT Series



X1-SPT-3K/3.6K



X1-SPT-6K/7K

### X1-SPT Series 3K/3.6K/6K/7K



## Features

### High-efficient

- 150% PV oversized
- Maximum 120% overload output for 60s
- Higher efficiency on charging and discharging, up to 97.4%
- Built-in shadow tracking function

### Economic

- Maximum 14A DC input current, support for high power solar panel
- Store the surplus energy from PV to battery
- Low start output voltage makes inverter longer working time

### Intelligent

- Switchover time <20ms
- 5 work modes, 2 charging periods available
- Support split phase 120 V & 240V output

### Safe

- NEMA 4X
- Integrated SPD

Contact Us for More Information

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# X1-SPT Series

## X1-SPT-3K

## X1-SPT-3.6K

## X1-SPT-6K

## X1-SPT-7K

### INPUT PV

Max.recommended PV panel power [W]	4500	5400	9000	10500
Max.DC voltage [V]	500	500	500	500
Norminal DC operating voltage [V]	390	390	390	390
Max. input current (per mppt) [A]	14/14	14/14	14/14/14	14/14/14
Max. short circuit current (per mppt)[A]	16/16	16/16	16/16/16	16/16/16
MPPT voltage range [V]	70~480	70~480	70~480	70~480
Start output voltage [V]	90	90	90	90
No. of MPP trackers	2	2	3	3
Strings per MPP tracker	1	1	1	1

### BATTERY

Battery voltage range [V]	100~480			
Max.charge/discharge current [A]	30			
Communication interfaces	CAN/ RS485			
Reverse connect protection	YES			

### OUTPUT / INPUT AC

Rated grid voltage (AC voltage range)[V]	1P 3W 120/240			
Rated grid frequency [Hz]	50/60			
Norminal AC outpout power [W]	3000	3600	6000	7000
Max. apparent AC output power [VA]	3000	3600	6000	7000
Norminal AC current [A]	12.5	15	25	29.2
Max. apparent AC input power [VA]	6000	7000	9300	9300
Max. AC input current [A]	25	29.2	39	39
Displacement power factor	0.8 leading to 0.8 lagging			
Total harmonic distortion (THDi, rated power)	<3%			

### EPS OUTPUT(WITH BATTERY)

EPS rated voltage [V]	1P 3W 120/240			
EPS rated frequency [Hz]	50/60			
EPS rated power [VA]	3000	3600	6000	7000
EPS rated current [A]	12.5	15	25	29.2
EPS peak power [VA]	100%~110%, 10min; 110%~120%, 1min			
Total harmonic distortion (THDv, linear Load)	<3%			

### EFFICIENCY

MPPT efficiency	99.90%	99.90%	99.90%	99.90%
Max. efficiency from PV to AC	97.0%	97.0%	96.5%	96.5%
Max. efficiency from PV to Battery	97.0%	97.0%	97.4%	97.4%
Max. efficiency from Battery to AC	96.0%	96.0%	96.0%	96.0%
Max. efficiency from AC to Battery	96.0%	96.0%	96.0%	96.0%

### STANDARD

Safety	UL Std. 1741, IEEE Std. 1547A and 1547.1			
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### ENVIRONMENT LIMIT

IP class	NEMA 4X			
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]	<3000			
Noise emission (typical) [dB]	<30			
Over voltage category	III (AC), II (DC)			

### OTHER

Cooling concept	Natural cooling			
Topology	Transformerless			
Communication	RS485 / Pocket wifi / Pocket LAN/CT*2/Dry contact (both for input and output)			

### DIMENSION AND WEIGHT

Dimensions of inverter [mm]	482*417*181	482*417*181	502*502*200	502*502*200
Inverter net weight [kg]	24	24	31	31

\*V1.5 Information may be subject to change without notice.650.00022.00