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## Solar Power System-5KW On grid system



Sants International TRADING Co., Ltd was established in 2008. The company is one high technology listed company which mainly focuses on research and development, manufacturing, sale and service of complete Green energy-solar power system and solar electronic equipments, taking "high efficiency and energy saving" as development direction.

With our industry leading expertise across the entire solar value chain, including our Innovative technologies, professional services, and proven track record of success, Sants solar energy solutions provide the most value and the least amount of risk for our customers.

Sants engineer teams will offer very excellent and patient service on solar system solutions. Everything will be made Based on helping clients to solve the problems in solar systems. Strong capability on one-stop solar energy system solutions design service .



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| <b>System Design Basic Information</b>   | No. of inverter = 5KW on grid inverter<br>No. of modules = 20 pcs 250W poly panel<br>Single Phase 220V-240V 50HZ<br>Total capacity of the system is 5KW   | <br> |
| <b>Mounting Kits</b><br> | Description: Mounting Brackets design for Pitch Rooftop-100 (Tile or steel Roof)<br>Flat Rooftop Mounting need add 25%<br>Wind Load: 55m/s or 200km/hour<br>Snow Load: 1.5kn/m2<br>Structure: Anodized Aluminum or Hot galvanizing Steel<br>Tilt angle: Same as roof type for 100, 10°→ 60° for 120<br>Maintenance: Free, Panel Cleaning as | <b>QTY</b><br><b>5KW</b>   |



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|-----------------------|--|-------------------------------|--|
| <b>Solar Panel</b>    |  <p>Solar panel 250W<br/>         Maximum power( Pmax): 250 W<br/>         Material: Poly-crystalline silicone cells<br/>         Open circuit voltage (Voc): 36.37 V<br/>         Short-circuit current (Isc): 8.92 A<br/>         Maximum voltage (Vmp): 30.65V<br/>         Maximum current (Imp): 8.16A<br/>         Size of Module (mm): 1640*990*40 mm<br/>         Weight Per piece (KG): 18.6 Kg<br/>         Module Certificates: TUV, IEC, CE Solar panel</p> | <b>QTY</b><br><b>20PCS</b>    | <b>Notes:</b><br>1. Pictures shows are for reference;<br>2. Power output data is based on areas with daily average peak power sunshine;<br>3. Mounting kits can be specially designed based on site condition.       |
| <b>Inverter</b>       |  <p>Model: SITP1-5KW<br/>         Specs: Single Phase 220V-240V 50HZ<br/>         On grid solar inverter<br/>         Number of MPPT / string per MPPT<br/>         Max. DC power(W): 5 KW<br/>         Max. power over 98% efficiency<br/>         Output waveform: Pure sine wave<br/>         Running temperature: 0-40 °C<br/>         Protection: high/low-voltage input, output, high/low-voltage, over temperature, short circuit protection function, etc.</p> | <b>QTY</b><br><b>1 set</b>    | <b>Remark:</b><br>1) solar panel have 25 years warranty;<br>2) Mounting kits have 15 years warranty, life time free components maintenance;<br>3) Inverter: 5 years warranty, life time free components maintenance; |
| <b>PV Cables</b>      |  <p>Description:<br/>         4mm<sup>2</sup> cables 100m (one red or one black);<br/>         TUV and UL standard, with specification suitable for solar system;<br/>         100m/roll</p>  | <b>QTY</b><br><b>50 m</b>     |  |
| <b>MC4 connectors</b> |  <p>Description:<br/>         Rated current: 30A<br/>         Waterproof grade: IP68<br/>         Rate voltage:<br/>         DC 1000V(TUV)600V(UL)<br/>         Pin dimensions: 4mm<br/>         Flame retardant grade:<br/>         TUV, UL94-VO</p>   | <b>QTY</b><br><b>20 pairs</b> |  |