



Guangzhou Sunnysky Solar Equipment Co.,Ltd

Off-grid Solar System

Model: TY090A

| Product Name | Specification | |
|-------------------|----------------|--|
| Solar panel | 10KW | - Integrated design, easy install and maintain |
| Solar controller | 96V100A | -LCD display + LED status indicator |
| Inverter | 96V15KVA(10kw) | - Output isolated transformer, safe and stable |
| Lead-acid battery | 2V500AH*48PCS | - Excellent overload capacity, Suitable for all sorts of electrical appliances |
| | | - Intelligent battery management function |
| | | - With perfect protect functions |

Technical Parameter

| Product Name | Specification | | Picture |
|--------------------------|--|--|---------|
| Solar panel | Model No. | TYP250W (Poly crystalline) | |
| | Rated Maximum Power | 250 W | |
| | Quantity | 40 pcs | |
| | Maximum Power | Voltage:30 V - Current: 8.33A | |
| | Open Circuit Voltage(Voc) | 36 V | |
| | Short Circuit Current(Isc) | 9.17 A | |
| | Maximum System Voltage | 1000 V | |
| | Operating Temperature | -40℃ ~ +85℃ | |
| Standard Test Conditions | 1000W/m ² , AM1.5, 25℃ | | |
| Lead-acid battery | Nominal Capacity | 2V500AH*48 pcs | |
| Solar controller | Rated Voltage(V) | 96V | |
| | Maximum charging current(A) | 100 A | |
| | Charge Voltage(V) | Floating charge: 115.2V Equalizing charge: 110.4V | |
| | Voltage range (V) | 86.4-132V | |
| | Operating temp. | -40℃ ~ +60℃ | |
| Inverter | Rated power | 15KVA(10kw) | |
| | DC input voltage range | 84-120V | |
| | AC input Voltage & Frequency | 110/220/240V±25% ; 50/60Hz±5% | |
| | AC output Voltage & Frequency | 110/220/240V±10% ; 50/60Hz±3% | |
| | Wave form: Pure sine wave | THDI: <5% (linear load) | |
| | Power factor: 0.9 | Effeciancy: > 85% | |
| | AC charging current (A) | Rated: 10, Max.: 15 | |
| | Max. operating altitude | 3000 (>3000m derating) | |
| | Storage temperature range | -25℃ ~ +70℃ | |
| | Cooling method | Air cooling | |
| | Operating temperature range (℃) | -20~+50 (>50℃ derating) | |
| | Relative humidity in operation | 0~95% (non-condensing) | |
| | Noise emission [dB (A)] | <55 (at 1 meter) | |
| | Communication interface | RS232 (optional) | |
| Over load capacity | 100~125% 10min; 125~150% 1min; 150~200% 5s | | |
| Complete protections | DC & AC overload, under-voltage, SPD, short-circuit, overcharge, overdischarge, over-temperature | | |
| Accessories | PV cables: 4mm ² *600m; PV brackets; Battery box; Lightning protection distribution box; Manual: 1 pc | | |

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