

High-efficiency photovoltaic module using silicon nitride multicrystalline silicon cells.

### Performance

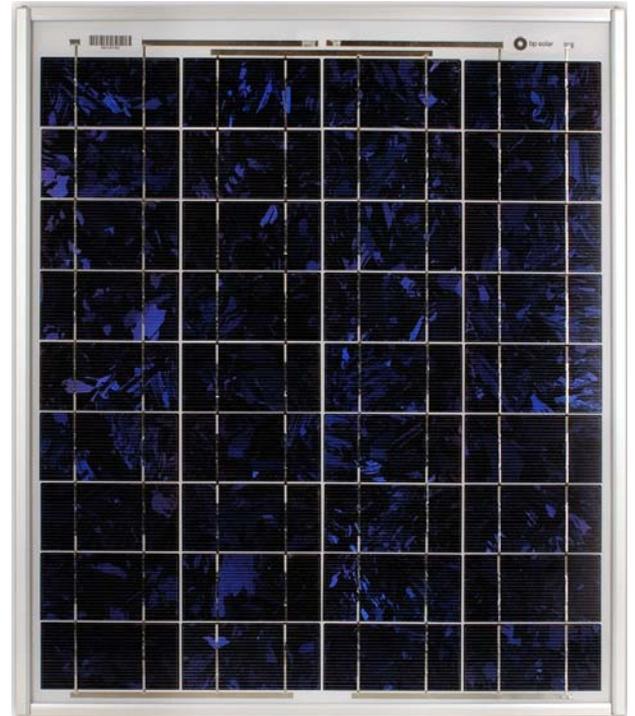
|                               |            |
|-------------------------------|------------|
| Rated power ( $P_{max}$ )     | 30W        |
| Power tolerance               | $\pm 10\%$ |
| Nominal voltage               | 12V        |
| Limited Warranty <sup>1</sup> | 12 years   |

### Configuration

|          |  |
|----------|--|
| <b>J</b> | Clear universal frame and standard J-Box |
|----------|--|

### Electrical Characteristics<sup>2</sup>

|   | <b>SX330</b>                     |
|---|----------------------------------|
| Maximum power ( $P_{max}$ ) <sup>3</sup>              | 30W                              |
| Voltage at Pmax ( $V_{mp}$ )                          | 16.8V                            |
| Current at Pmax ( $I_{mp}$ )                          | 1.78A                            |
| Warranted minimum $P_{max}$                           | 27W                              |
| Short-circuit current ( $I_{sc}$ )                    | 1.94A                            |
| Open-circuit voltage ( $V_{oc}$ )                     | 21.0V                            |
| Temperature coefficient of $I_{sc}$                   | $(0.065 \pm 0.015)\% / ^\circ C$ |
| Temperature coefficient of $V_{oc}$                   | $-(80 \pm 10)mV / ^\circ C$      |
| Temperature coefficient of power                      | $-(0.5 \pm 0.05)\% / ^\circ C$   |
| NOCT (Air 20°C; Sun 0.8kW/m <sup>2</sup> ; wind 1m/s) | 47 $\pm$ 2°C                     |
| Maximum series fuse rating                            | 5A                               |
| Maximum system voltage                                | 50V (US NEC rating)              |



### Mechanical Characteristics

|              |  |                      |                     |
|--------------|--|----------------------|---------------------|
| Dimensions   | Length: 595mm (23.4")  | Width: 502mm (19.7") | Depth: 50mm (1.97") |
| Weight       | 3.9 kg (8.6 pounds)  |                      |                     |
| Solar Cells  | 36 cells (57mm x 114mm) in a 4x9 matrix connected in series  |                      |                     |
| Junction Box | J-Version junction box with 4-terminal connection block; IP 65, accepts PG 13.5, M20, ½ inch conduit, or cable fittings accepting 6-12mm diameter cable. Terminals accept 2.5 to 10mm <sup>2</sup> (8 to 14 AWG) wire. |                      |                     |
| Construction | Front: High-transmission 3mm (1/8 <sup>th</sup> inch) tempered glass; Back: Polyester; Encapsulant: EVA  |                      |                     |
| Frame        | Clear anodized aluminum alloy type 6063T6 Universal frame; Color: silver   |                      |                     |

1. Module Warranty: 12-year limited warranty of 90% power output; 2-year limited warranty of materials and workmanship. See your local representative for full terms of these warranties.
2. These data represent the performance of typical BP modules, and are based on measurements made in accordance with ASTM E1036 corrected to SRC (STC.)
3. During the stabilization process that occurs during the first few months of deployment, module power may decrease by approx. 1% from typical  $P_{max}$ .

