

B50 SOLAR CELL MONO CRYSTALLINE SILICON

Physical Characteristics

Construction: All-back contact
 Dimensions: 125mm x 125mm - nominal
 Thickness: 175 $\mu\text{m} \pm 40 \mu\text{m}$

ELECTRICAL CHARACTERISTICS OF TYPICAL CELL AT STANDARD TEST CONDITIONS (STC)

STC is defined as: irradiance of 1000W/m², spectrum AM 1.5g and cell temperature of 25°C

Open Circuit Voltage: 0.670 V
 Short Circuit Current: 5.9 A
 Maximum Power Voltage: 0.560 V
 Maximum Power Current: 5.54 A
 Rated Power: 3.1 W
 Efficiency: Up to 21.8%

Un-laminated Cell Temperature Coefficients

Voltage: -1.9 mV / °C
 Power: -0.38% / °C

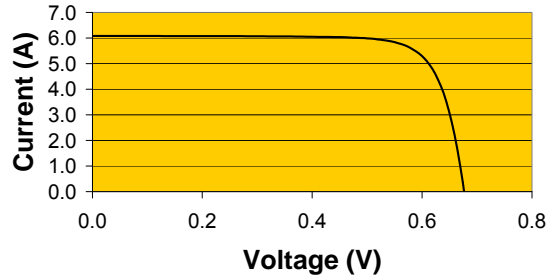
ATTRIBUTES

- High efficiency reduces module assembly and system installation costs
- Uniform front appearance - no contact grid
- Back contact design simplifies circuit assembly
- Lower temperature coefficient improves energy delivery

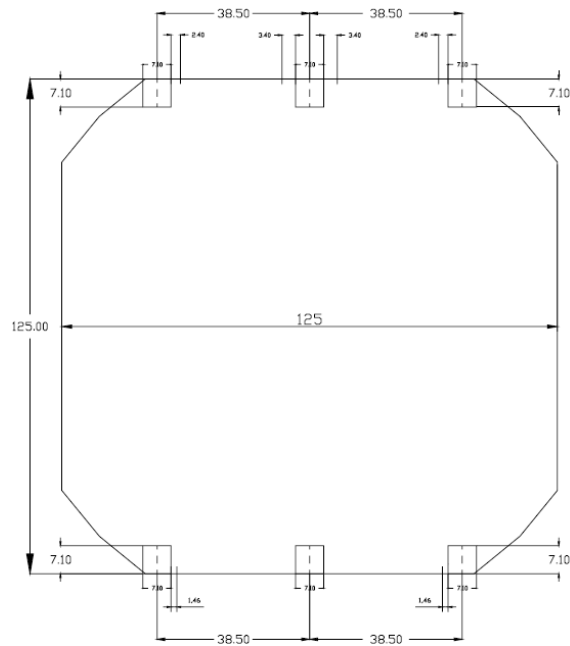
PACKAGING

- Cells are packed in boxes of 1000 each; grouped in shrink-wrapped stacks of 100 with interleaving
- Twelve boxes are packed in a water-resistant "Master Carton" containing 12,000 cells suitable for air transportation

B50 CELL PERFORMANCE – TYPICAL I-V CURVE



B50 CELL & BONDPAD DIMENSIONS



Pad area dimensions are 7.1mm x 7.1mm.