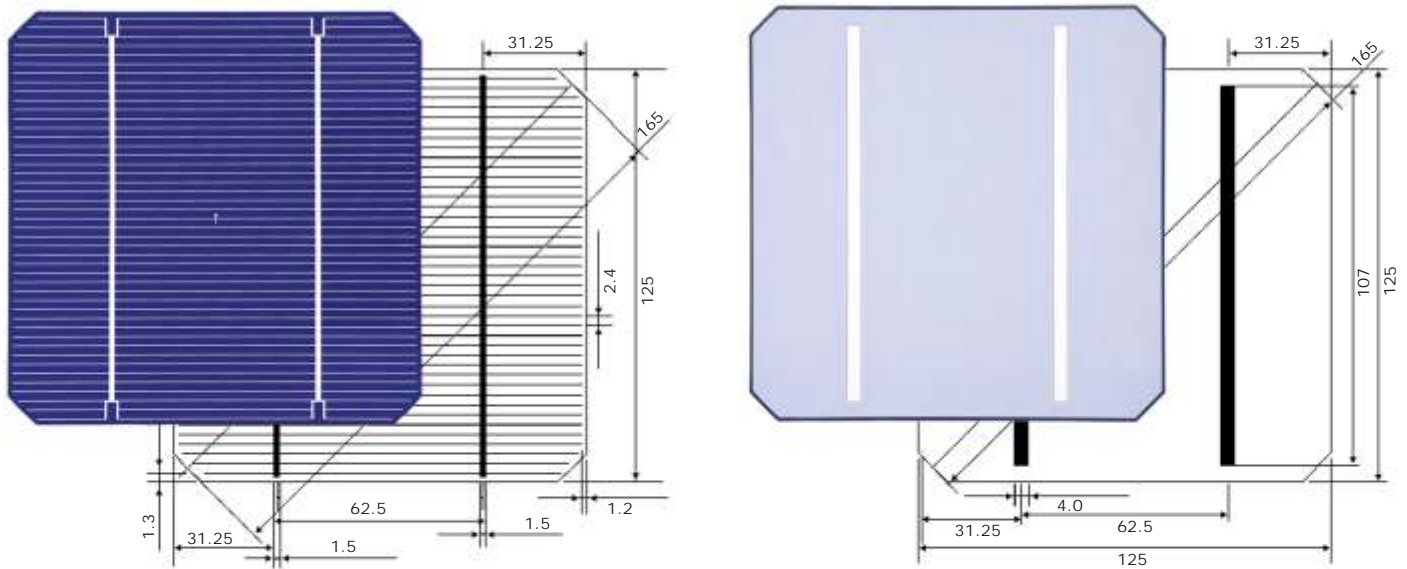


5" Mono-Crystalline Solar Cell 125mm x 125mm ± 1mm (square)



FEATURES

- 17.0% Plus cell efficiency.
- High quality mono-crystalline wafers are used to ensure high cell efficiency.
- Proprietary texturing process and silicon nitride anti-reflective coating gives high a absorbance.
- Calibration by Fraunhofer IEC cell.
- 100% check on optical and Electrical Parameters.
- Total control on operational parameters ensure consistent cell performance.
- All cells are electrically matched through high grade electrical sorter to ensure the best module power output.

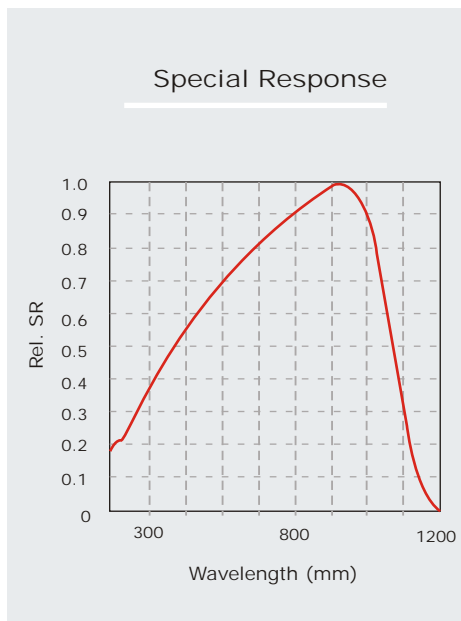
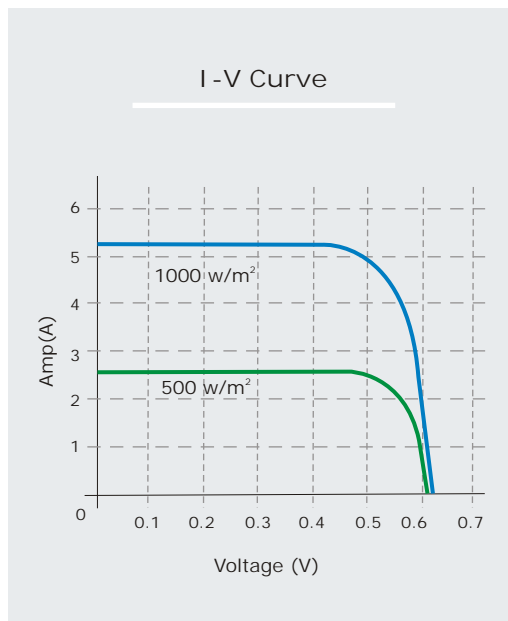
MECHANICAL DATA & DESIGN

| | |
|------------|--|
| Dimension: | 125mm X 125mm ± 1 mm(square) |
| Diagonal : | 165 mm ± 1 mm |
| Area: | 154 square cm |
| Weight: | 7gm to 9gm |
| Thickness: | 165µm to 230µm |
| Front (-): | Silver bus bars silicon nitride anti reflection coating, blue / purple |
| Back (+): | Full surface Aluminum back surface field 4.0 mm wide (silver/aluminum) Continuous soldering pads. |

Electrical Specification

| Model | Efficiency (Eff%) | Power(Pmax) | Open Circuit Voltage(Voc) | Short Circuit Current(Isc) | Maximum Current (Imax) | Maximum Voltage (Vmax) |
|----------|-------------------|-------------|---------------------------|----------------------------|------------------------|------------------------|
| 125-WS1 | 17.25-17.50 | 2.68 | 0.620 | 5.50 | 5.18 | 0.517 |
| 125-WS2 | 17.00-17.25 | 2.65 | 0.618 | 5.46 | 5.13 | 0.516 |
| 125-WS3 | 16.75-17.00 | 2.60 | 0.618 | 5.43 | 5.05 | 0.515 |
| 125-WS4 | 16.50-16.75 | 2.57 | 0.616 | 5.40 | 5.00 | 0.514 |
| 125-WS5 | 16.25-16.50 | 2.53 | 0.614 | 5.38 | 4.94 | 0.512 |
| 125-WS6 | 16.00-16.25 | 2.49 | 0.610 | 5.35 | 4.90 | 0.508 |
| 125-WS7 | 15.75-16.00 | 2.45 | 0.610 | 5.32 | 4.90 | 0.500 |
| 125-WS8 | 15.50-15.75 | 2.41 | 0.605 | 5.30 | 4.87 | 0.495 |
| 125-WS9 | 15.25-15.50 | 2.37 | 0.600 | 5.28 | 4.84 | 0.490 |
| 125-WS10 | 15.00-15.25 | 2.33 | 0.600 | 5.25 | 4.75 | 0.490 |

Product Characteristics



Light Intensity Dependence

| Intensity W/m ² | Vmax (mV) | Imax (mA) |
|----------------------------|-----------|-----------|
| 1000 | 1.000 | 1.0 |
| 800 | 0.993 | 0.8 |
| 600 | 0.982 | 0.6 |
| 200 | 0.941 | 0.2 |
| 100 | 0.916 | 0.1 |

Temperature Coefficients

| | | |
|------------------------|----------|-----------|
| Coefficient of Current | α | 0.09%/°C |
| Coefficient of Voltage | β | -0.34%/°C |
| Coefficient of Power | γ | -0.37%/°C |

Testing Condition

| | |
|---------------------|---|
| Irradiance | 1000W/m ² calibrated by Fraunhofer standard cell |
| Light Source | Xenon short arc lamp with AM 1.5 Filter |
| Testing Temperature | 25°C |



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