

Douro Series

Features Performance and Quality

- Superior light utilization & higher current density achieved by standard process and materials.
- All products passed in-line optical inspection.
- 100% inspected for shunt resistance and reverse current.
- Standard cells calibrated by Fraunhofer ISE.
- Regularly monitor product performance and soldering properties.
- Excellent mechanical performance proven by all customers.
- All products conform to the regulation of RoHS.

G156M5 6" Multicrystalline Silicon Solar Cell – PID Free Pattern Code 5BB CI

PHYSICAL CHARACTERISTICS

Dimensions 156.75mm × 156.75mm ±0.25mm

Front SiNx anti-reflecting coating

Color: Ocean Blue, Blue, Dark Blue & Indigo Blue
5 bus-bars (Segment) width: 0.7 mm ± 0.1 mm
Distance between bus-bars: 31.2 ± 0.1 mm

Cell's Thickness (Si) 200µm +/- 20µm

Back Aluminum back surface field

5 bus-bars (Segment) width: 1.5 mm ± 0.1mm
Distance between bus-bars: 31.2 ± 0.1 mm

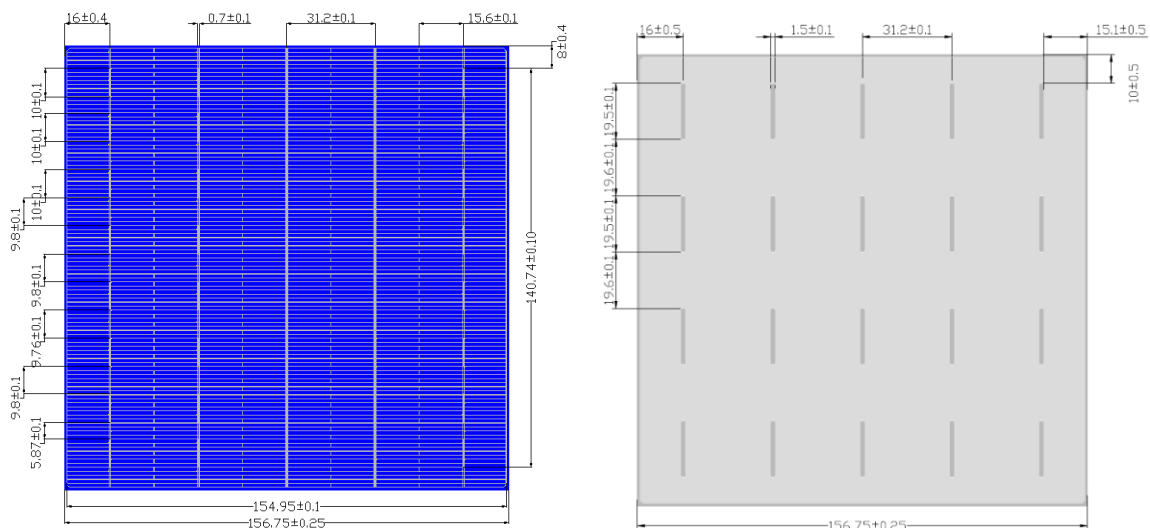
ELECTRICAL CHARACTERISTICS

| Code | | 18.8 | 18.7 | 18.6 | 18.5 | 18.4 | 18.3 | 18.2 | 18.0 | 17.8 | 17.6 |
|-----------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Power | [W] | 4.62 | 4.59 | 4.57 | 4.55 | 4.52 | 4.50 | 4.47 | 4.42 | 4.37 | 4.32 |
| Short Circuit Current | Isc[A] | 9.06 | 9.04 | 9.02 | 9.00 | 8.98 | 8.97 | 8.95 | 8.92 | 8.89 | 8.85 |
| Open Circuit Voltage | Voc[mV] | 638 | 636 | 635 | 633 | 632 | 631 | 630 | 628 | 626 | 624 |
| Current at 0.5V | [A] | 8.93 | 8.90 | 8.87 | 8.85 | 8.82 | 8.80 | 8.78 | 8.72 | 8.66 | 8.57 |
| Maximum Power Current | Imp[A] | 8.57 | 8.55 | 8.53 | 8.51 | 8.49 | 8.48 | 8.46 | 8.42 | 8.38 | 8.31 |
| Maximum Power Voltage | Vmpp[mV] | 540 | 538 | 537 | 536 | 535 | 533 | 532 | 529 | 526 | 522 |
| FillFactor | [%] | 80.01 | 79.97 | 79.94 | 79.92 | 79.90 | 79.82 | 79.76 | 79.51 | 79.42 | 78.51 |

Temperature Coefficients Isc:0.045%/°C Voc : -0.304%/°C FF : -0.111%/°C Power : -0.361%/°C

The above data are average figures presently measured. Accuracy of eff. measurement is ±0.1%.
Reference data are calibrated by Fraunhofer ISE Freiburg.

APPEARANCE



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