

## Douro Series – PID free

### 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.

## G156M4 6”Multicrystalline Silicon Solar Cell

Pattern Code **4BB DA**

### PHYSICAL CHARACTERISTICS

**Dimensions** 156mm × 156mm ±0.5mm

**Front** SiNx anti-reflecting coating,  
Color: Ocean Blue, Blue, Dark Blue & Indigo Blue  
4 bus-bars(Continuous) with 1.0 mm ± 0.1mm width  
Distance between bus-bars: 39 mm

**Thickness (Si)** 200 μm +/- 20 μm

**Back** Aluminum back surface field  
4 bus-bars(Segmented) with 1.8 mm ± 0.1mm width  
Distance between bus-bars: 39 mm

### ELECTRICAL CHARACTERISTICS

Code		18.60	18.40	18.20	18.00	17.80
Power	[W]	4.53	4.48	4.43	4.38	4.33
Short Circuit Current	Isc [A]	8.92	8.87	8.84	8.80	8.75
Open Circuit Voltage	Voc[mV]	636	634	632	630	628
Current at 0.5V	[A]	8.72	8.64	8.60	8.54	8.47
Maximum Power Current	I <sub>mpp</sub> [A]	8.44	8.40	8.36	8.32	8.28
Maximum Power Voltage	V <sub>mpp</sub> [mV]	538	534	532	530	528
Fill Factor	[%]	79.96	79.85	79.72	79.63	79.56
Temperature Coefficients	Isc : 0.050%/°C Voc : -0.341%/°C FF : -0.114%/°C Power : -0.424%/°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

