

IM156B5

Multicrystalline I-Cells

Dimension	156.75mm x 156.75mm ± 0.25mm
Thickness(Si)	180µm ± 20µm, 200µm ± 20µm
Front	Blue silicon nitride anti-reflection coatings 0.7±0.1mm silver busbars
Back	Full-surface aluminum back-surface field 1.7±0.1mm (silver / aluminum) discontinuous soldering pads

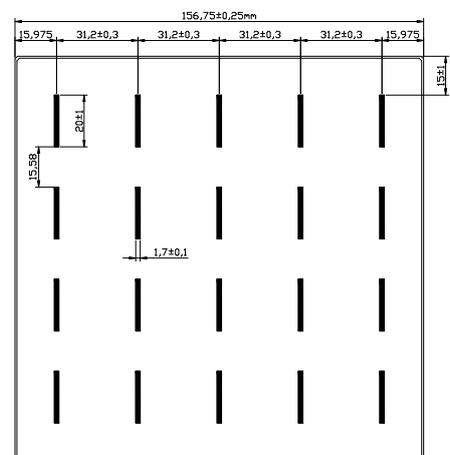
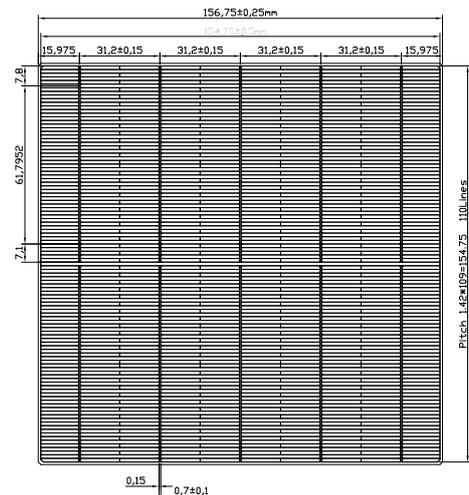


► Features

- > High conversion efficiencies resulting in superior power output performance
- > Outstanding power output even in low light or high temperature conditions
- > Optimized design for ease of soldering and lamination
- > Long-term stability, reliability and performance
- > Low breakage rate
- > Uniform Color
- > Diamond Wire Wafer

► Production and Quality Control

- > Precision cell efficiency sorting procedures
- > Stringent criteria for color uniformity and appearance
- > Reverse current and shunt resistance screening
- > ISO9001, ISO14001 and OHSAS 18001 certificated
- > Calibrated against Fraunhofer ISE



Electrical Performance

Efficiency Code		190	188	187	186
Efficiency	Eff(%)	19.00	18.80	18.70	18.60
Power	Ppm(W)	4.67	4.62	4.59	4.57
Max. Power Current	Ipm(A)	8.54	8.49	8.47	8.45
Short Circuit Current	Isc(A)	9.02	8.97	8.95	8.92
Max. Power Voltage	Vpm(V)	0.547	0.544	0.543	0.541
Open Circuit Voltage	Voc(V)	0.643	0.640	0.639	0.638

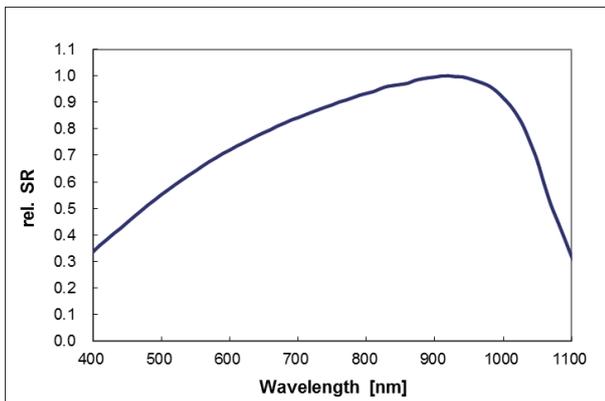
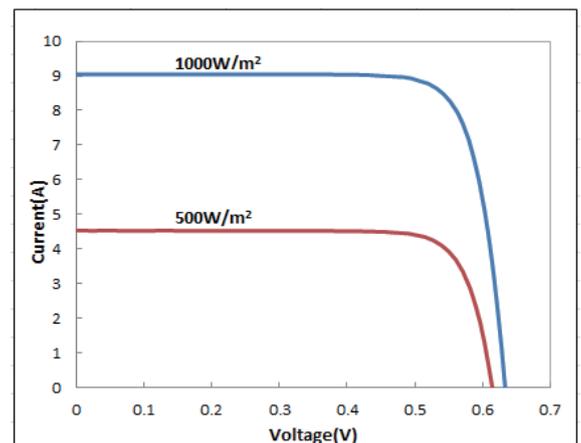
Efficiency Code		185	184	182	180
Efficiency	Eff(%)	18.50	18.40	18.20	18.00
Power	Ppm(W)	4.55	4.52	4.47	4.42
Max. Power Current	Ipm(A)	8.42	8.40	8.36	8.31
Short Circuit Current	Isc(A)	8.90	8.88	8.83	8.79
Max. Power Voltage	Vpm(V)	0.540	0.538	0.535	0.532
Open Circuit Voltage	Voc(V)	0.636	0.635	0.632	0.629

Standard test conditions: AM1.5, 1000W/m², 25°C. Average accuracy of all tested figures is ±1.5% rel.

Temperature Coefficients

Current Temperature Coefficient	$\alpha(Isc)$	0.04%/°C
Voltage Temperature Coefficient	$\beta(Voc)$	-0.31%/°C
Power Temperature Coefficient	$\gamma(Pmax)$	-0.39%/°C

Standard test conditions : AM1.5, 1000W/m², 25°C.

Spectral Response(SR)

IV Curve


Specifications subject to change without prior notice. MOTeCH reserves the rights of final interpretation and revision of this datasheet.

Mar 2018 Pis1.5AD V03