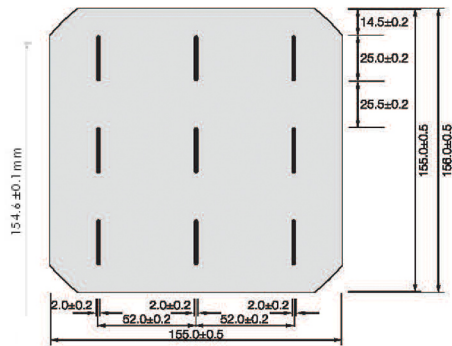
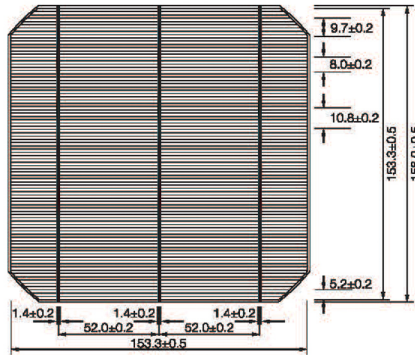
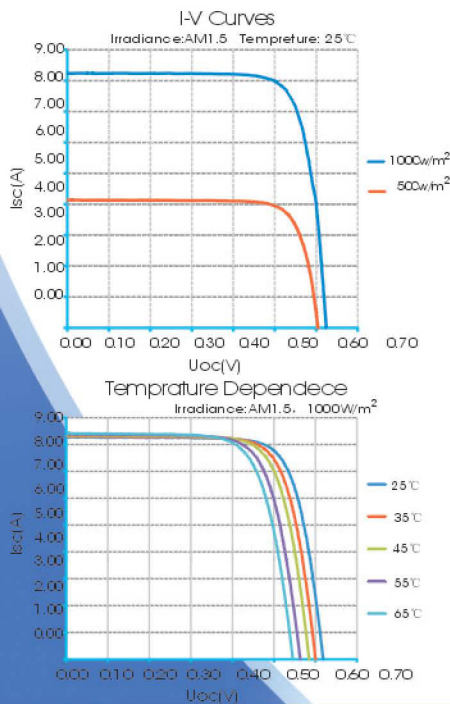




## External dimensions



## Characteristic curves



## Electrical Characteristic

CLSP156(3BB)	Eff.(%)	Pmpp(W)	Umpp(V)	Impp(A)	Uoc(V)	Isc(A)	Vap(V)	Iap(A)
BE193	19.2-19.4	4.59	0.541	8.48	0.640	8.97	0.5	8.81
BE191	19.0-19.2	4.54	0.540	8.41	0.639	8.96	0.5	8.79
BE189	18.8-19.0	4.49	0.538	8.35	0.638	8.94	0.5	8.76
BE187	18.6-18.8	4.45	0.535	8.32	0.637	8.91	0.5	8.73
BE185	18.4-18.6	4.40	0.533	8.26	0.636	8.88	0.5	8.71
BE183	18.2-18.4	4.35	0.530	8.21	0.634	8.83	0.5	8.65
BE181	18.0-18.2	4.30	0.527	8.16	0.632	8.81	0.5	8.63
BE179	17.8-18.0	4.26	0.523	8.15	0.631	8.79	0.5	8.62

This data represents the performance of typical products, and is based on measurements made in accordance with IEC904-1 corrected to STC (Light intensity : Standard intensity 1000W/m<sup>2</sup>, Temperature : 25°C, Spectrum: AM1.5 spectrum)

## Mechanical Characteristics

Format	156mm×156mm±0.5mm
Average Thickness	200 μm±40 μm
Front	Textured silicon Blue Silicon Nitride Antireflective Coating
Back	Full surface aluminum back-surface field 3 mm wide silver soldering pads

## Temperature Coefficients

Current temperature coefficient	+ 3.3 mA/K
Voltage temperature coefficient	- 2.0 mV/K
Power temperature coefficient	- 0.4 % /K



# CHINALIGHT SOLAR

## CLS M156(3BB)

### (Monocrystalline Silicon Solar Cell)



#### Good energy yield

Excellent isotropic diffuse reflection with mix acid etch surface

Silicon nitrate antireflection coatings deposited using plasma-enhanced chemical vapor deposition



#### Well electric contact

Both front and back use silver contact

Back surface field is aluminum



#### High quality

Long-term electrical stability

Narrow performance tolerances

Excellent low light behavior

PID free



#### Strictly quality testing

Automatism testing and 24 separate bins base on IEC60904 criterion

100% strictly final testing for countercurrent, shunt and series resistance

100% inspection for visual and optical defects

Calibration by Fraunhofer ISE



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