

# JS158M5 MONOCRYSTALLINE CELLS

## 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

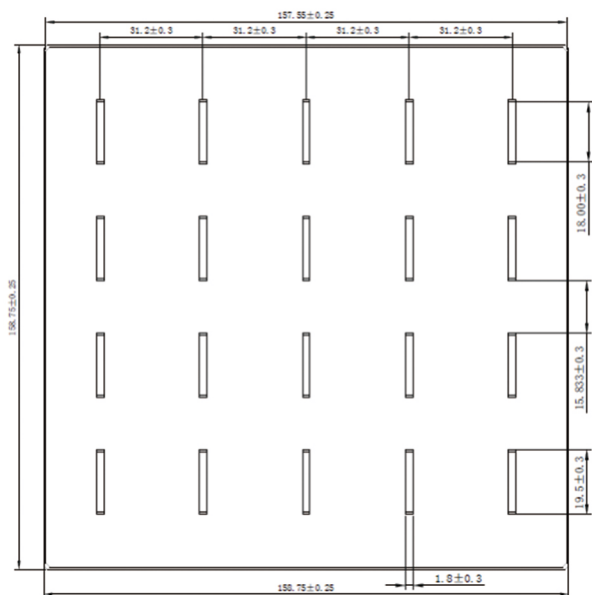
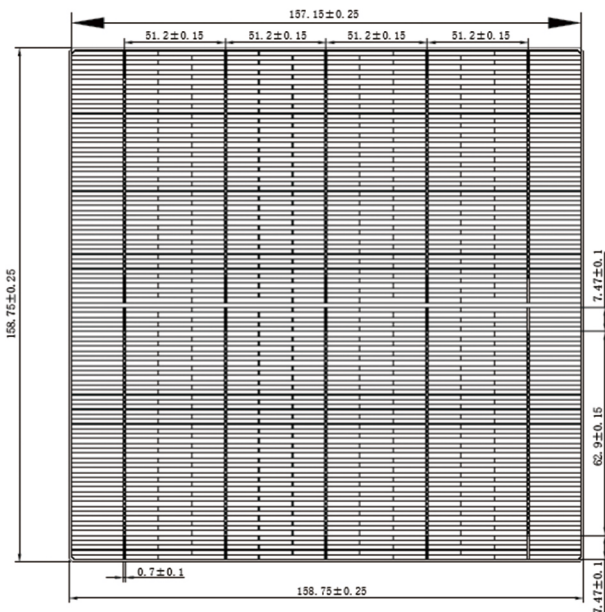
Low breakage rate

Uniform Color

## PRODUCTION AND QUALITY CONTROL

Mature technical control and strict sorting standard to ensure consistency and reliability of solar cell;

Completely careful operation during production to avoid micro-cracks and reduce breakage rates during module assembly.



### Dimension

158.75mm x 158.75mm ± 0.25mm

### Thickness(Si)

190μm ± 30μm

### Front

Anisotropically texturized surface and dark silicon nitride anti-reflection coatings

0.7mm silver busbars

### Back

Local aluminum back-surface field

1.8mm (silver / aluminum) discontinuous soldering pads

### TEMPERATURE COEFFICIENTS

<b>Current Temperature Coefficient</b>	$\alpha$ (Isc)	0.07 %/°K
<b>Voltage Temperature Coefficient</b>	$\beta$ (Voc)	-0.36 %/°K
<b>Power Temperature Coefficient</b>	$\gamma$ (Pmax)	-0.38 %/°K

Standard test condition : AM1.5, 1000W/m<sup>2</sup>, 25°C.

### ELECTRICAL PERFORMANCE

Efficiency Code		226	225	224	223	222	221
<b>Efficiency</b>	Eff (%)	22.60	22.50	22.40	22.30	22.20	22.10
<b>Power</b>	P <sub>pm</sub> (W)	5.69	5.67	5.64	5.62	5.59	5.57
<b>Max. Power Current</b>	I <sub>pm</sub> (A)	9.861	9.841	9.829	9.807	9.754	9.738
<b>Short Circuit Current</b>	I <sub>sc</sub> (A)	10.363	10.353	10.333	10.312	10.296	10.238
<b>Max. Power Voltage</b>	V <sub>pm</sub> (V)	0.577	0.576	0.574	0.573	0.573	0.572
<b>Open Circuit Voltage</b>	V <sub>oc</sub> (V)	0.677	0.675	0.673	0.672	0.669	0.668
Efficiency Code		220	219	218	217	216	
<b>Efficiency</b>	Eff (%)	22.00	21.90	21.80	21.70	21.60	
<b>Power</b>	P <sub>pm</sub> (W)	5.54	5.52	5.49	5.47	5.44	
<b>Max. Power Current</b>	I <sub>pm</sub> (A)	9.657	9.648	9.629	9.618	9.603	
<b>Short Circuit Current</b>	I <sub>sc</sub> (A)	10.215	10.202	10.182	10.171	10.147	
<b>Max. Power Voltage</b>	V <sub>pm</sub> (V)	0.572	0.572	0.571	0.569	0.567	
<b>Open Circuit Voltage</b>	V <sub>oc</sub> (V)	0.668	0.667	0.667	0.666	0.665	

Standard test condition : AM1.5, 1000W/m<sup>2</sup>, 25°C. Average accuracy of all tested figures is ±1.5% rel.

IV parameters are rated at Standard Test Conditions (Irradiance of 1000 W/m<sup>2</sup>, AM 1.5, cell temperature 25°C). All measurements are guaranteed at the laminate leads. NOCT is measured at 800 W/m<sup>2</sup>, 20°C ambient, and 1 m/s windspeed. Specifications are subject to change without notice. JS Solar reserves the rights of final interpretation and revision on this datasheet.