

# JS182M10 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

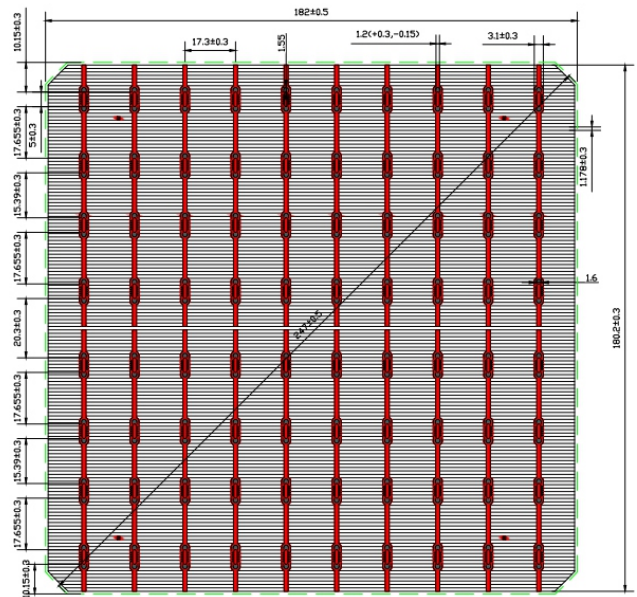
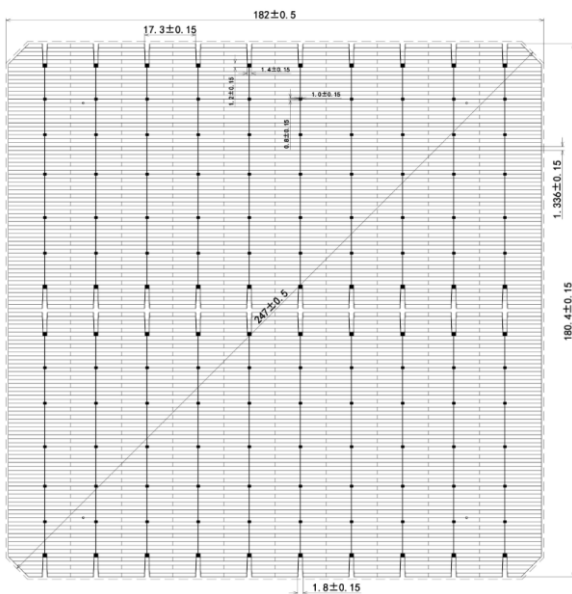
Low breakage rate

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

182mm x 182mm ± 0.5Φ247mm

### Thickness(Si)

175μm ± 20μm

### Front

Anisotropically textured surface and dark silicon nitride anti-reflection coatings

10 busbar with a spacing of 17.3mm

### Back

Local aluminum back-surface field

Electrode width is 1.4mm

## 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		232	231	230	229	228	227	226	225	224	223	222	221
<b>Efficiency</b>	Eff (%)	23.2	23.1	23.0	22.9	22.8	22.70	22.60	22.50	22.40	22.30	22.20	22.10
<b>Power</b>	P <sub>pm</sub> (W)	7.66	7.63	7.59	7.56	7.53	7.5	7.46	7.43	7.4	7.36	7.33	7.30
<b>Max. Power Current</b>	I <sub>pm</sub> (A)	12.81	12.78	12.73	12.71	12.68	12.647	12.604	12.570	12.535	12.500	12.465	12.430
<b>Short Circuit Current</b>	I <sub>sc</sub> (A)	13.584	13.577	13.50	13.416	13.346	13.266	13.226	13.187	13.147	13.108	13.068	13.028
<b>Max. Power Voltage</b>	V <sub>pm</sub> (V)	0.598	0.597	0.596	0.595	0.594	0.593	0.592	0.591	0.59	0.589	0.588	0.587
<b>Open Circuit Voltage</b>	V <sub>oc</sub> (V)	0.694	0.693	0.692	0.691	0.69	0.689	0.688	0.687	0.686	0.685	0.684	0.683

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.