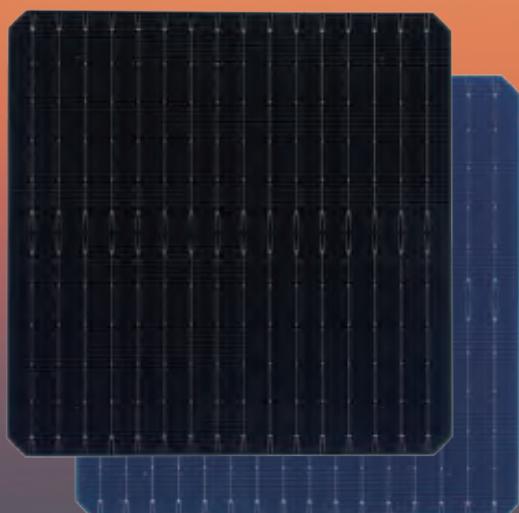


## M10LN-ST-16BB - 160200

### High Efficiency N-type Monocrystalline Silicon Bifacial TOPCon Solar Cell

-  Higher Conversion Efficiency, Average Efficiency of Mass Production > 26.4%, Theoretical Efficiency > 27%
-  Lower Temperature Coefficient, Lowest to -0.30%/°C
-  Bifaciality Over 85%
-  Better Weak Light Generation, Extending The Module Working Time In The Morning And Evening Over 1 Hour
-  Better Reliability And Lower Degradation



## Frontside Electrical Performance Distribution

Cell model	Unit	25.00	24.90	24.80	24.70	24.60	24.50	24.40	24.30	24.20	24.10	24.00
Open Circuit Voltage	V	0.718	0.717	0.717	0.717	0.716	0.715	0.714	0.713	0.712	0.711	0.71
Short-circuit Current	A	14.045	14.037	14.010	13.982	13.974	13.965	13.957	13.948	13.939	13.930	13.921
Operation Voltage	V	0.615	0.614	0.612	0.611	0.609	0.608	0.607	0.607	0.605	0.603	0.601
Operation Current	A	13.552	13.520	13.510	13.477	13.467	13.434	13.401	13.346	13.335	13.324	13.313
Maximum Output	W	8.33	8.30	8.27	8.23	8.20	8.17	8.13	8.10	8.07	8.03	8.00
Efficiency	%	25	24.9	24.8	24.7	24.6	24.5	24.4	24.3	24.2	24.1	24.0

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

## Backside Electrical Performance Distribution

Cell model	Unit	>20.50	20.25-20.50	20-20.25	<20.00
Open Circuit Voltage	V	0.692	0.691	0.69	0.689
Short-circuit Current	A	12.858	12.814	12.769	12.748
Operation Voltage	V	0.586	0.585	0.584	0.582
Operation Current	A	11.542	11.521	11.481	11.451
Maximum Output	W	6.76	6.74	6.70	6.66
Efficiency	%	>20.5	20.25-20.5	20-20.25	<20.00

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

## Design And Dimensional Parameters

Substrate Material	N-type monocrystalline silicon wafer
Thickness	130μm±10μm
Edge Length	182.2mm*183.75mm±0.5mm
Diagonal Length	Φ247mm±0.5mm
Frontside(-)	16*0.030±0.015mm Busbar (Silver), 160 Fingers, Blue (Dark Blue) Color Anti-Reflective Film (Silicon Nitride)
Backside(+)	16*0.030±0.015mm Busbar (Silver), 200 Fingers, Blue (Dark Blue) Color Anti-Reflective Film (Silicon Nitride)

## Degradation & CTM

Irradiance: 1000W/m<sup>2</sup>, Standard solar spectrum(AM 1.5), total irradiation: 5 kwh/m<sup>2</sup>, Degradation of cell efficiency by≤2%

Cell to module loss<3%

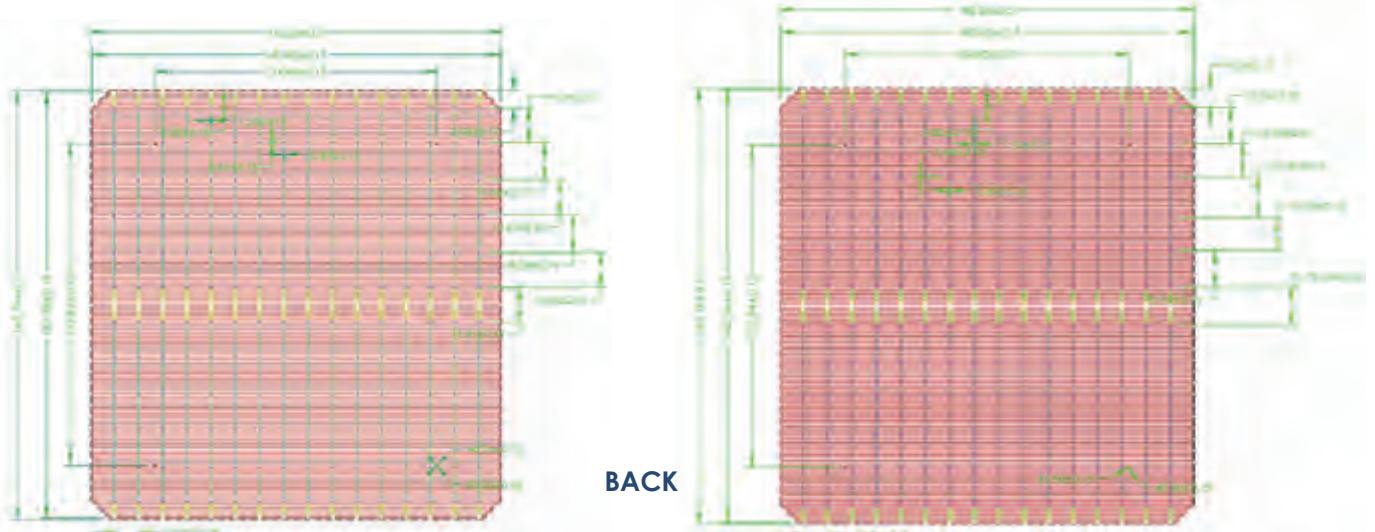
-1500 volts, 192 hours, power degradation<5%

## Packaging and storage

The packaging box is heat shrinkable and surrounded by foam air cushions for shock absorption and cushioning, reducing the impact of long-distance transportation on the product. The packaged batteries are stored indoors in a well ventilated and dry environment, with humidity controlled below 60%.

\* Design technical data changes and specific instructions for testing conditions. The right to final interpretation reserved.

## Appearance

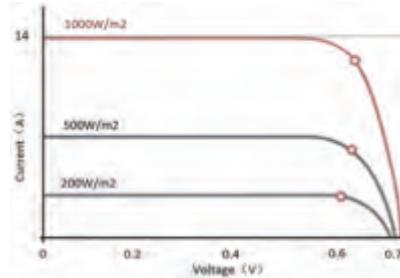


## Light Intensity Reliability

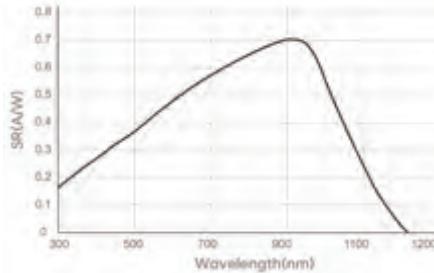
Light intensity(W/m <sup>2</sup> )	1000	900	800	600	400
Open circuit voltage	1.0	0.998	0.992	0.988	0.964
short-circuit current	1.0	0.904	0.803	0.602	0.403

Using Uoc (Isc) tested at (1000W/m<sup>2</sup>, AM1.5, 25 ° C) as the standard, measure the magnitude of Uoc (Isc) decrease with light intensity

## I-V Curve



## Spectral Response Curve



## Temperature Coefficient

Maximum power temperature coefficient	-(0.32±0.02)%/k
Maximum Voc	-(0.28±0.03)%/k
Maximum Isc	+(0.06±0.015)%/k