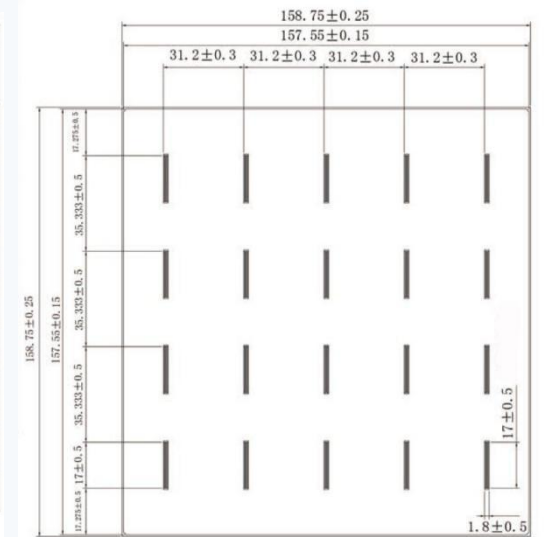
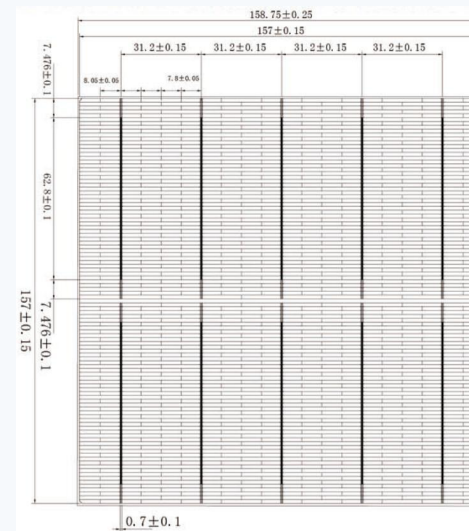
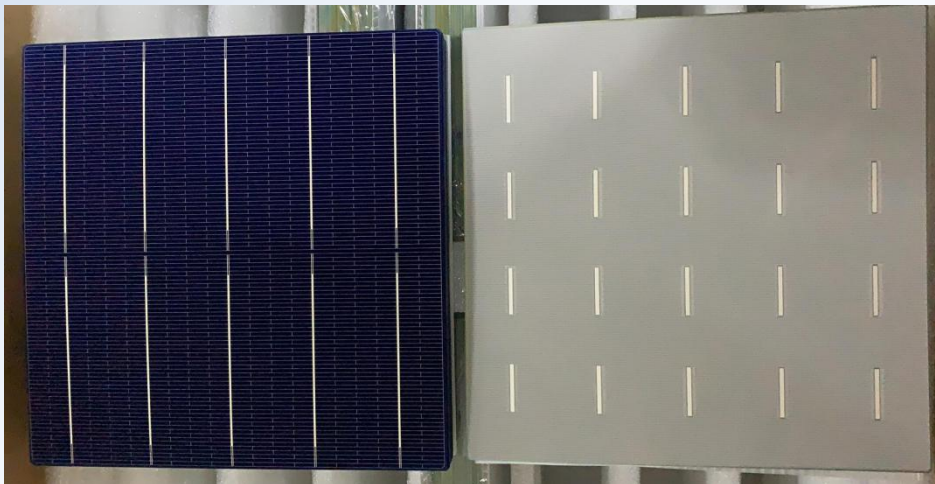


## Allesun New Energy Vietnam Co., Ltd.

### 158.75 Mono Solar Cell 5BB

#### Product Appearance



## Technical Data and Design

<b>Dimension</b>	158.75*158.75±0.25
<b>Thickness</b>	180±20μm
<b>Front</b>	5*0.7mm busbars (silver), Blue anti-reflecting coating (siliconnitride)
<b>Back(+)</b>	5*1.8mm busbars(silver), Back surface field (aluminum)

## Temperature Coefficients

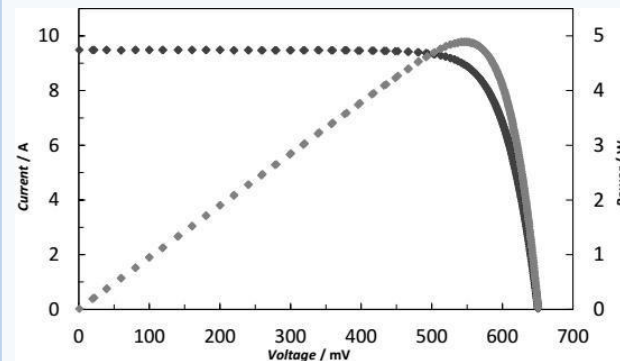
TkVoc (%/K)	<b>-0.36</b>
TkIsc(%/K)	<b>+0.06</b>
TkP <sub>MAX</sub> (%/K)	<b>-0.36</b>

## Light Intensity dependence

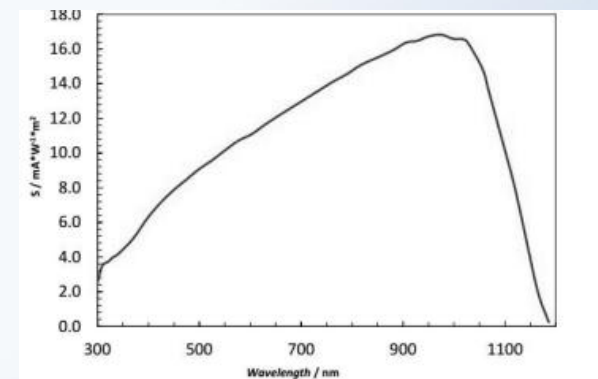
Intensity(W/m <sup>2</sup> )	Voc	Isc
1000	1.00	1.0
900	1.00	0.91
800	0.99	0.81
500	0.97	0.51
300	0.95	0.31

Take the Voc (Isc) at 1000W/m<sup>2</sup> as the standard, test the range of Voc(Isc) decrease with light intensity.

## IV Curve



## Spectral Response



## Electrical Performance

Efficiency Code	Efficiency(%)	$P_{mpp}$ (W)	$V_{mpp}$ (V)	$I_{mpp}$ (A)	$V_{oc}$ (V)	$I_{sc}$ (A)
AV-158.75M-223S	<b>22.30%</b>	5.62	0.5859	9.5921	0.6886	10.0501
AV-158.75M-222S	<b>22.20%</b>	5.59	0.5840	9.5800	0.6873	10.0471
AV-158.75M-221S	<b>22.10%</b>	5.57	0.5822	9.5664	0.6859	10.0431
AV-158.75M-220S	<b>22.00%</b>	5.54	0.5802	9.4794	0.6833	10.0400
AV-158.75M-219S	<b>21.90%</b>	5.52	0.5783	9.4668	0.6821	10.0340
AV-158.75M-218S	<b>21.80%</b>	5.49	0.5762	9.4592	0.6807	10.0310
AV-158.75M-217S	<b>21.70%</b>	5.47	0.5737	9.4561	0.6788	10.0269
AV-158.75M-216S	<b>21.60%</b>	5.44	0.5712	9.4539	0.6769	10.0238
AV-158.75M-215S	<b>21.50%</b>	5.42	0.5687	9.4511	0.6754	10.0269
AV-158.75M-214S	<b>21.40%</b>	5.39	0.5687	9.4071	0.6748	9.9999
AV-158.75M-213S	<b>21.30%</b>	5.37	0.5669	9.3927	0.6761	9.9968
AV-158.75M-212S	<b>21.20%</b>	5.34	0.5652	9.3769	0.6743	9.9762
AV-158.75M-211S	<b>21.10%</b>	5.32	0.5660	9.3199	0.6714	9.8933
AV-158.75M-209S	<b>20.90%</b>	5.27	0.5686	9.1885	0.6733	9.7863
AV-158.75M-207S	<b>20.70%</b>	5.22	0.5632	9.1892	0.6680	9.7831