

# UZM166-9BB

## Monocrystalline Cell

<b>Dimension</b>	166mm x 166mm ± 0.25mm
<b>Diagonal</b>	223mm ± 0.25mm (Round chamfers)
<b>Thickness(Si)</b>	190±30µm
<b>Front</b>	Anisotropically texturized surface and dark silicon nitride anti-reflection coatings 0.7± 0.1mm silver busbars
<b>Back</b>	Local aluminum back-surface field 1.3 ± 0.1mm (silver / aluminum) discontinuous soldering pad

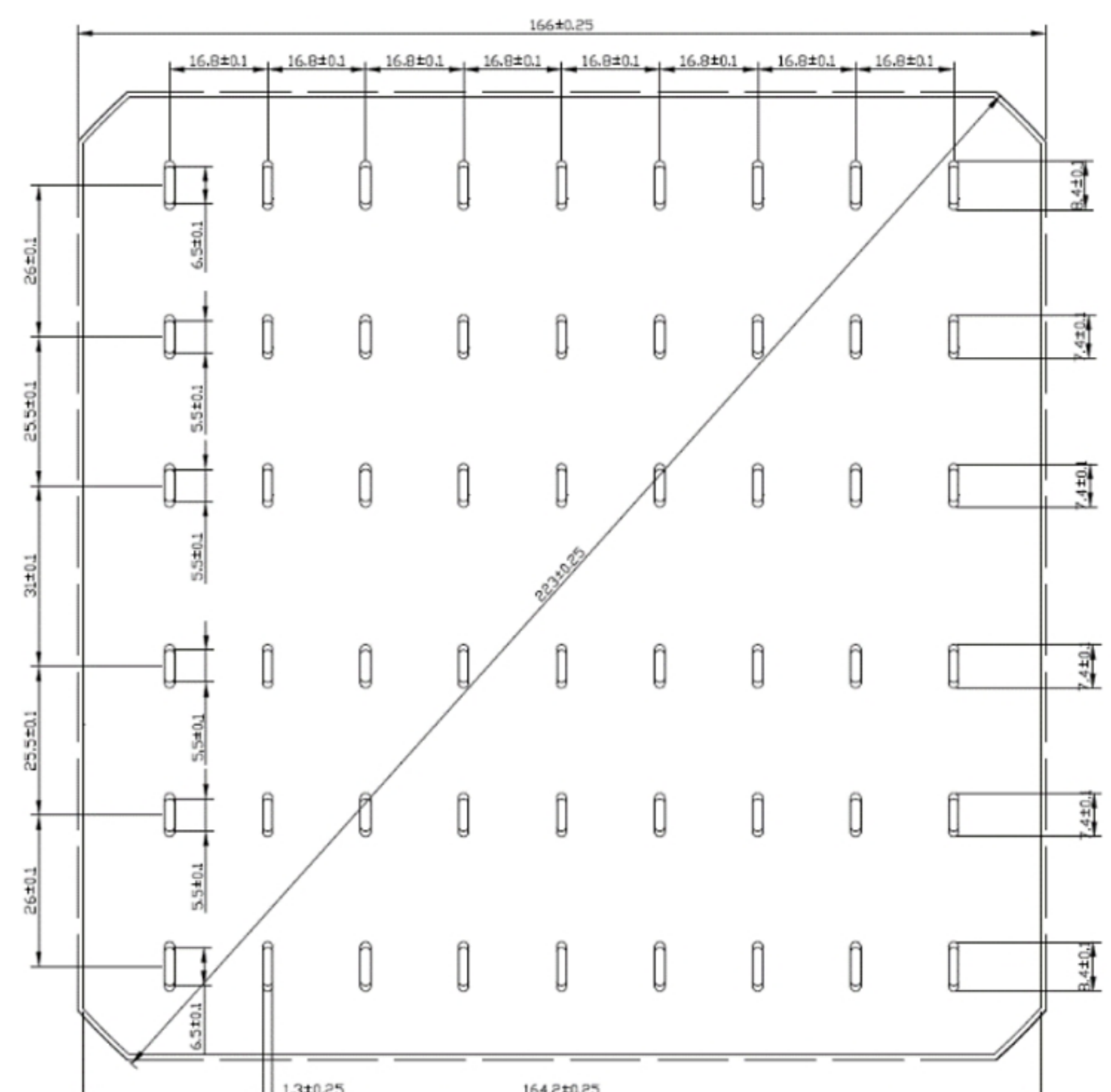
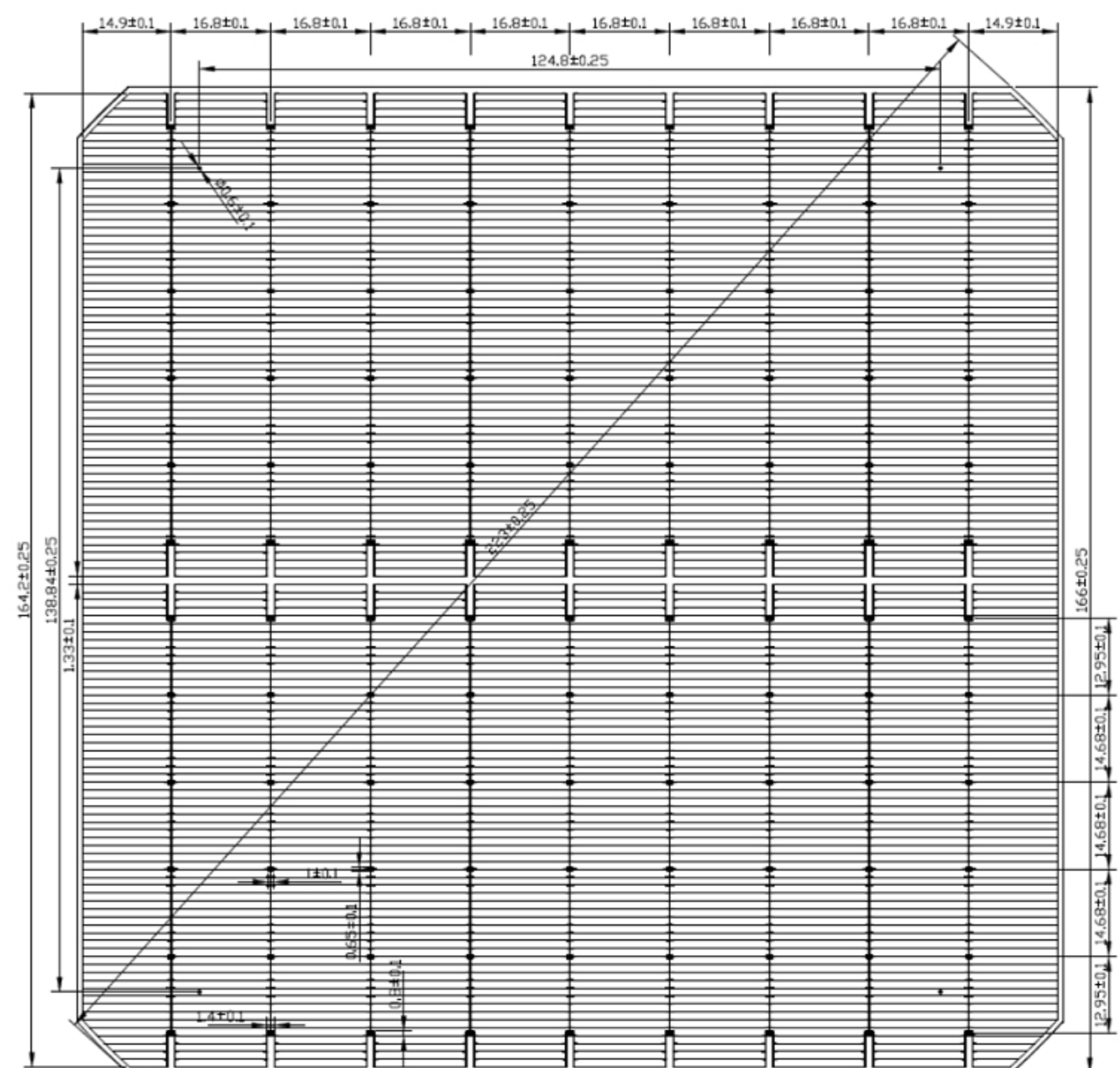


### ► Features

- > 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

- > Precision cell efficiency sorting procedures
- > Stringent criteria for color uniformity and appearance
- > Reverse current and shunt resistance screening
- > ISO9001, ISO14001 and OHSAS 18001 certificated
- > Calibrated against Fraunhofer ISE



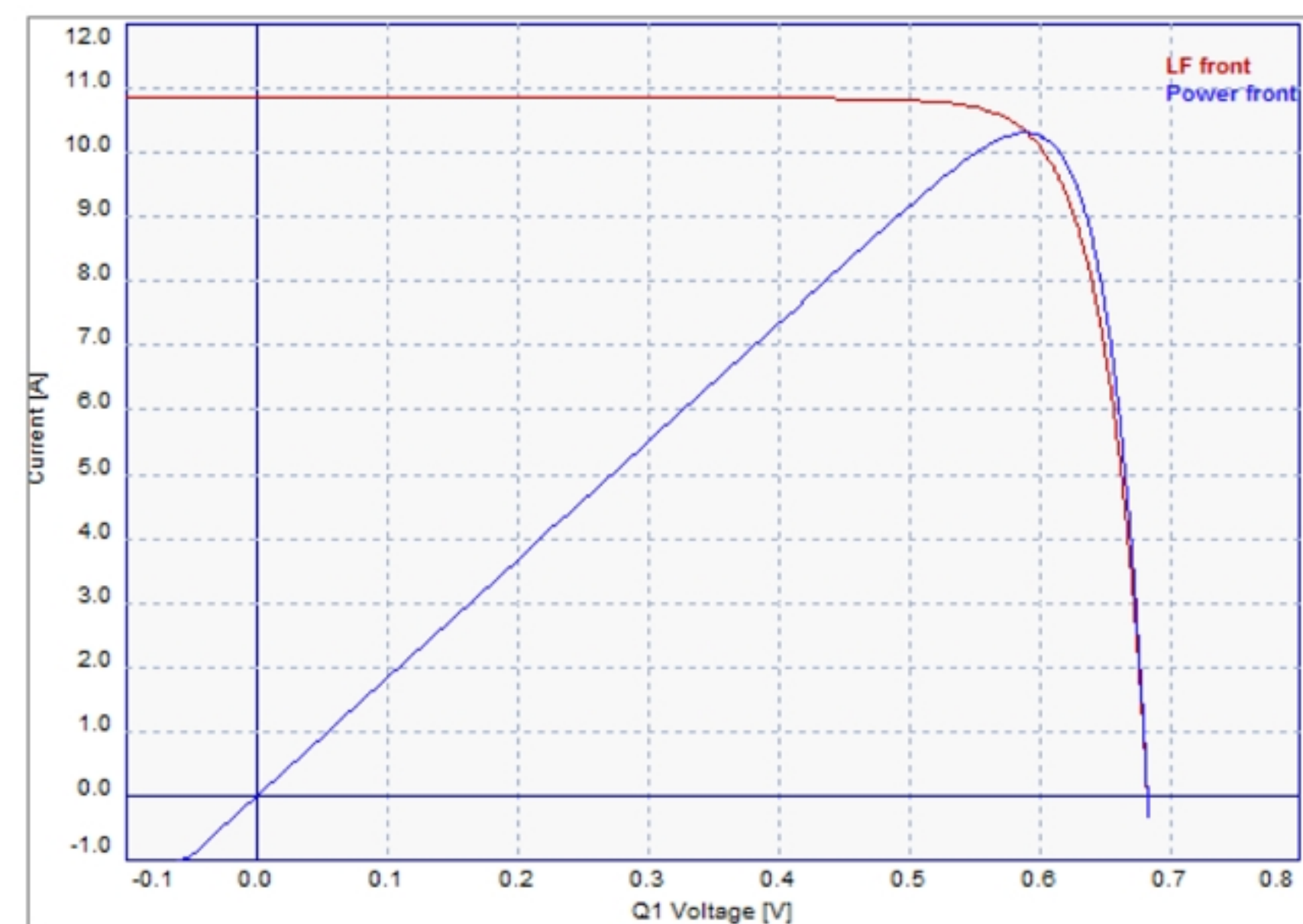
\* See the reverse side for more detail

### Light Intensity Dependence

Intensity(W/m <sup>2</sup> )	Uoc	Isc
1000	1.000	1.000
900	0.996	0.903
800	0.991	0.803
600	0.988	0.602
400	0.962	0.403

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



### Solder Ability

Peel strength Minimum  $\geq 1.4\text{N/mm}$

Results may be different due to different ribbons, soldering methods and parameters.

### Electrical Performance Parameters

Code	Efficiency (%)	Pmpp (W)	Umpp (V)	Impp (A)	Uoc (V)	Isc (A)	FF (%)
TW-166M-229	22.9	6.28	0.5943	10.563	0.6817	11.139	82.67
TW-166M-228	22.8	6.25	0.5925	10.550	0.6803	11.124	82.60
TW-166M-227	22.7	6.22	0.5902	10.544	0.6784	11.119	82.51
TW-166M-226	22.6	6.20	0.5885	10.529	0.6770	11.103	82.43
TW-166M-225	22.5	6.17	0.5866	10.515	0.6761	11.089	82.27
TW-166M-224	22.4	6.14	0.5848	10.502	0.6746	11.077	82.18
TW-166M-223	22.3	6.11	0.5829	10.488	0.6732	11.060	82.11
TW-166M-222	22.2	6.09	0.5805	10.485	0.6699	11.046	82.25
TW-166M-221	22.1	6.06	0.5786	10.472	0.6683	11.033	82.18
TW-166M-220	22.0	6.03	0.5764	10.464	0.6662	11.025	82.15

Specifications subjects to technical changes and tests. UZON PV reserves the right of final interpretation.