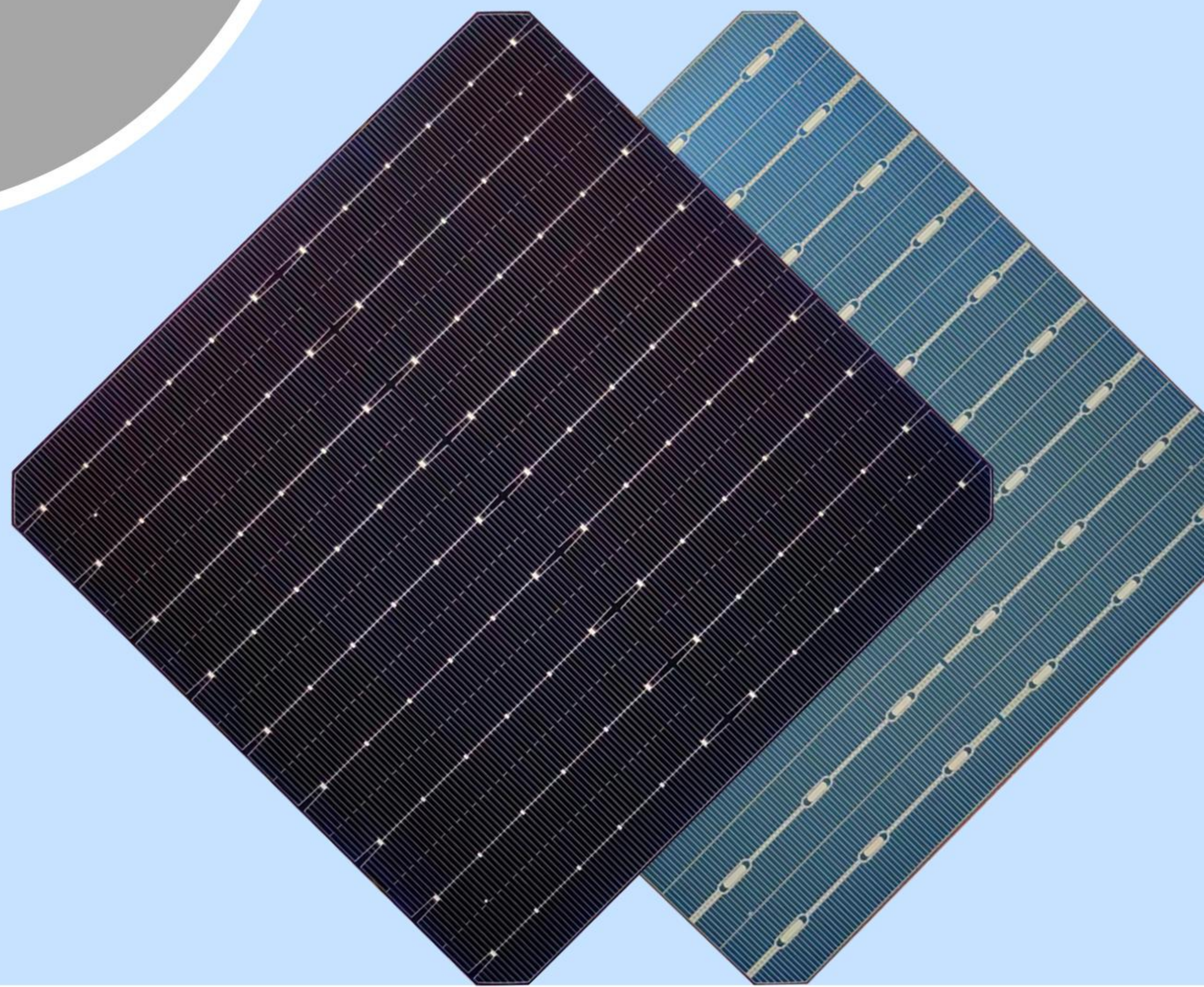


M166-9BB Data Sheet



■ Product Description

- ✓ High conversion efficiency with high reliability
- ✓ No light-induced degradation
- ✓ Uniform cell performance with stable process control
- ✓ Both sides can generate electricity
- ✓ Low mismatch of cell performance during encapsulation
- ✓ Excellent power generation performance under low irradiation
- ✓ Low hot spot effect

■ Technical Characteristics

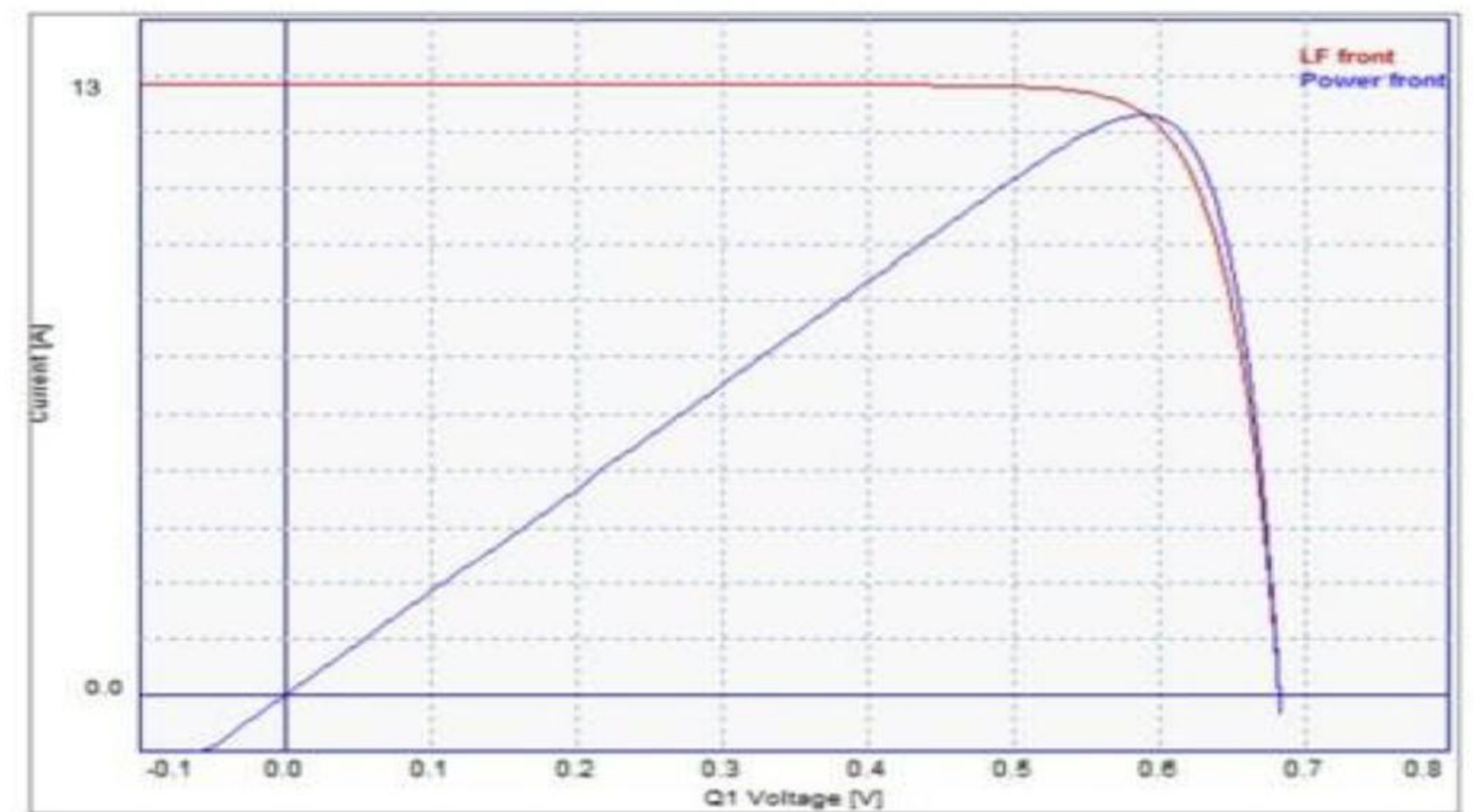
Dimension	166mm*166mm±0.25mm	Matrix material: P
Thickness	170±18um	TkPower(%/°C): -0.380
Front	0.01±0.03mm wide bus bars,136 finger, Silicon nitride anti-reflection coating	TkCurrent(%/°C): 0.007
Back (+)	1.6±0.25mm wide discontinuous soldering pads, 150finger grids(aluminum)	TkVoltage (%/°C): -0.36

■ Light Intensity and Reliability

Intensity(W/m2)	Uoc	Isc
1000	0.980	0.980
900	0.976	0.883
800	0.971	0.783
600	0.968	0.582
400	0.942	0.383

The UOC (ISC) tested by 1000W/m2 is the standard, and the ISC (ISC) decreases with the strong decrease in light.

■ IV Curve

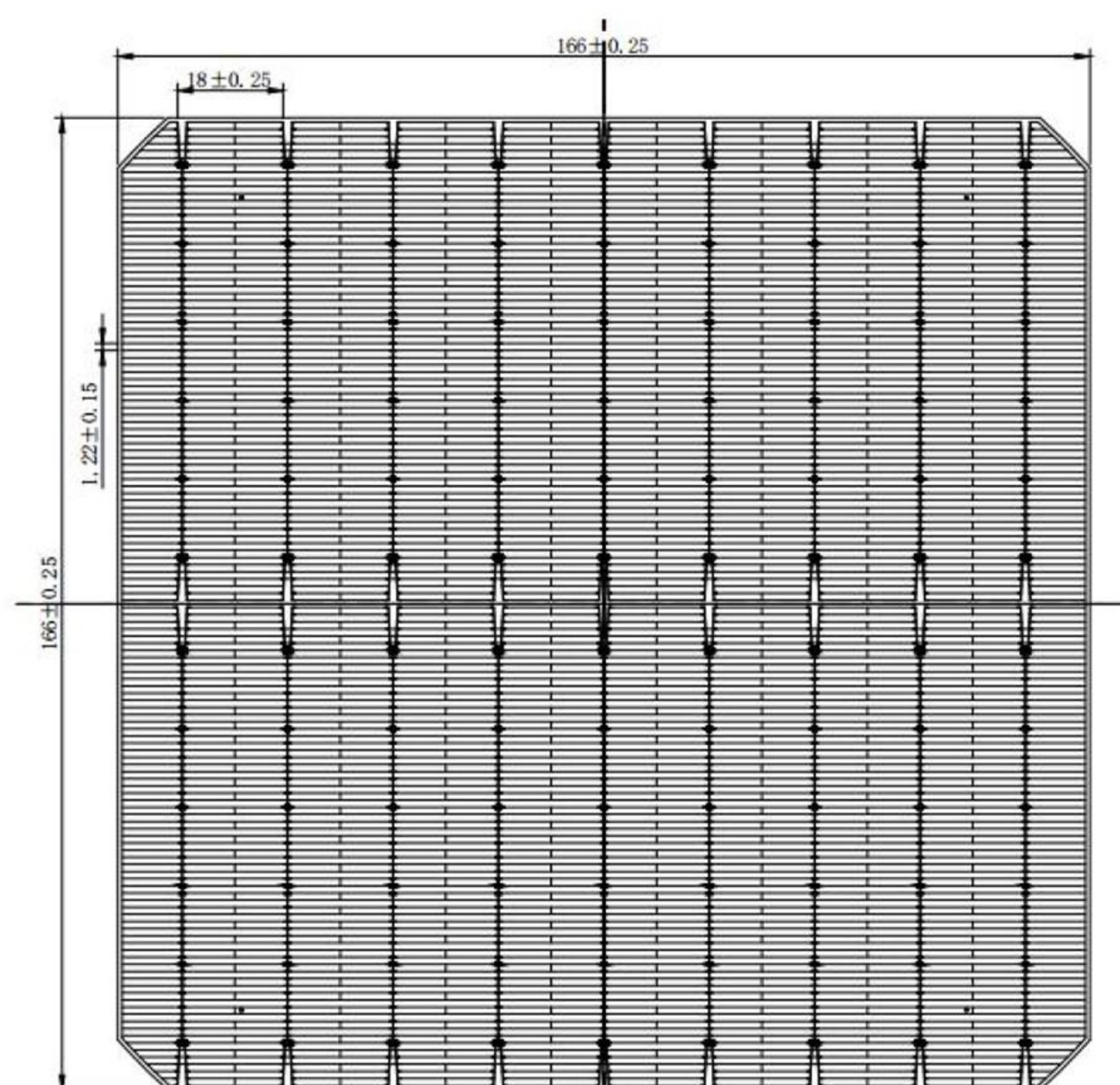


■ Weldability

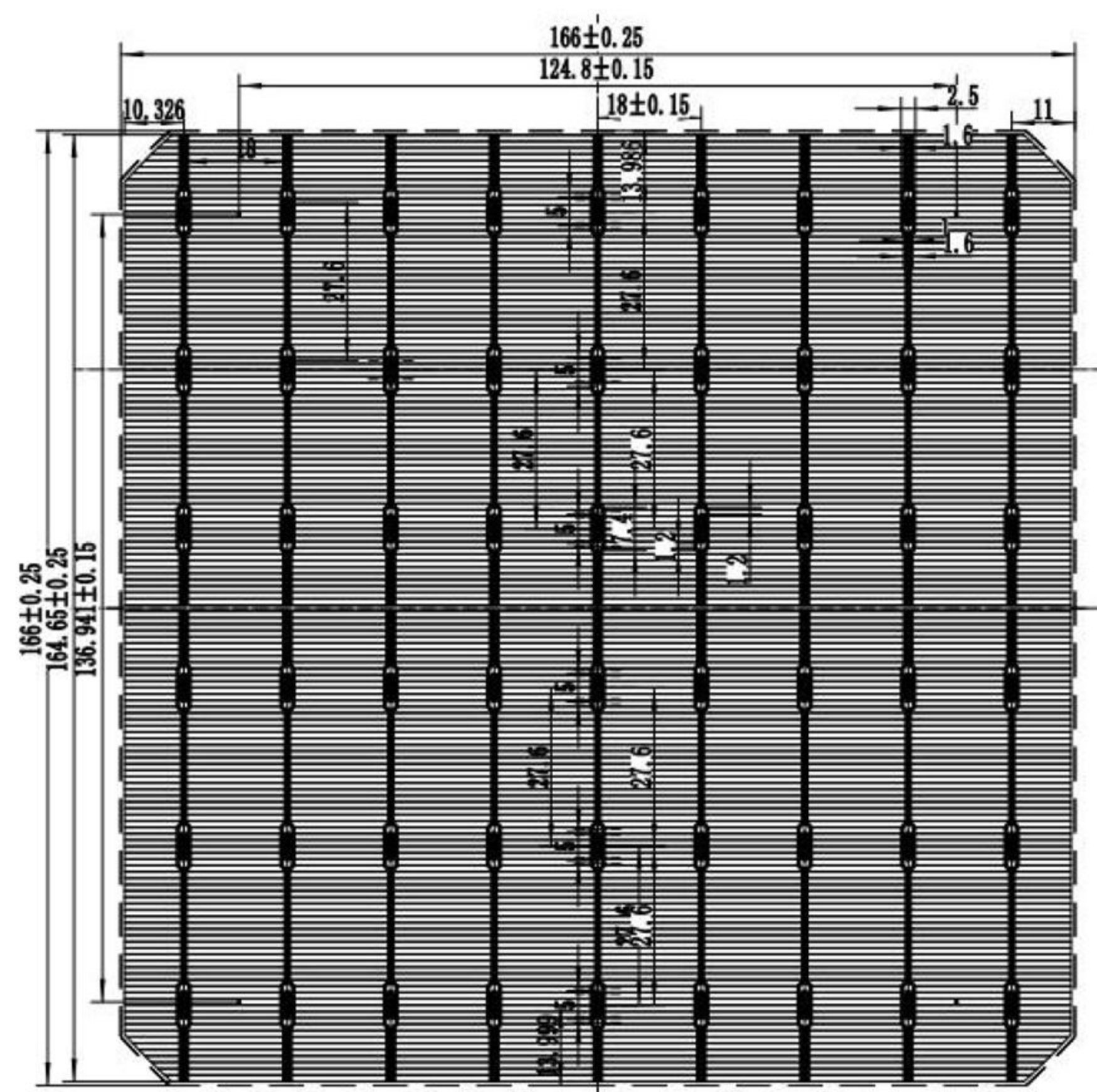
Minimum peeling intensity $\geq 1.0\text{N/mm}$

Results may vary depending on the welding ribbon, welding methods and conditions.

■ Printing Graphics



Front Side



Back Side

■ Electric characteristics

Class	Efficiency(%)	$P_{mpp}(W)$	$U_{mpp}(V)$	$I_{mpp}(A)$	$U_{oc}(V)$	$I_{sc}(A)$
22.9	22.90%	6.28	0.593	10.583	0.687	11.113
22.8	22.80%	6.25	0.592	10.566	0.686	11.107
22.7	22.70%	6.22	0.590	10.540	0.684	11.105
22.6	22.60%	6.20	0.588	10.525	0.682	11.090
22.5	22.50%	6.17	0.587	10.503	0.681	11.082
22.4	22.40%	6.14	0.585	10.486	0.680	11.075
22.3	22.30%	6.11	0.583	10.477	0.679	11.060
22.2	22.20%	6.09	0.581	10.462	0.678	11.039
22.1	22.10%	6.03	0.579	10.448	0.677	11.021

STC:1000W/m², AM1.5, 25°C