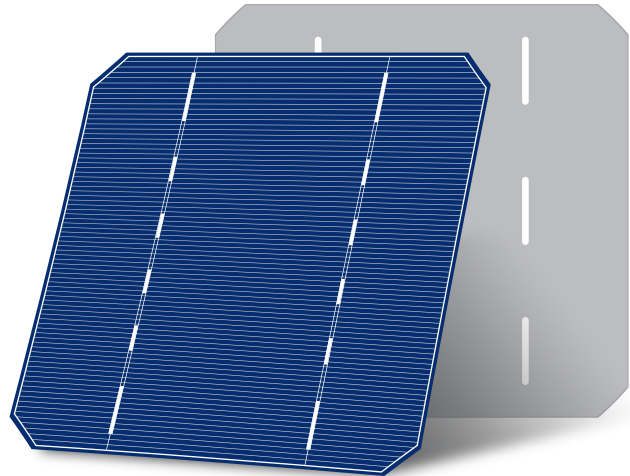


# JST M5

## 2BB CYPRESS2

### MONOCRYSTALLINE SILICON SOLAR CELLS

Just Solar's High-efficiency Mono Cells.  
Manufacturing modules with more than  
**200Wp(6×12)** power output becomes easier than ever.



#### MECHANICAL DATA AND DESIGN

|           |   |
|-----------|---|
| Format    | 125mm×125mm±0.5mm   |
| Thickness | 200 <sup>μ</sup> m±30 <sup>μ</sup> m                                  |
| Front(-)  | 1.4mm bus bars(silver), blue anti-reflecting coating(silicon nitride) |
| Back(+)   | 2mm wide soldering pads(silver) back surface yield(aluminum)          |

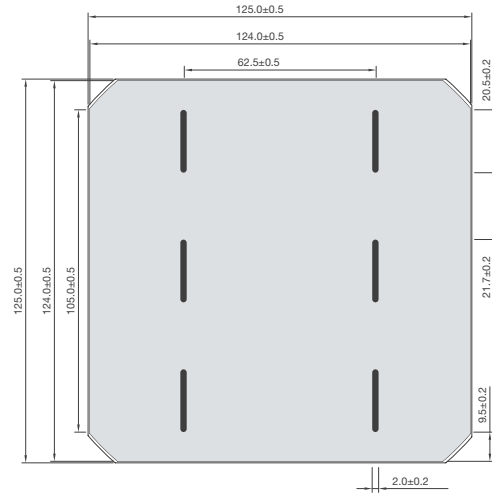
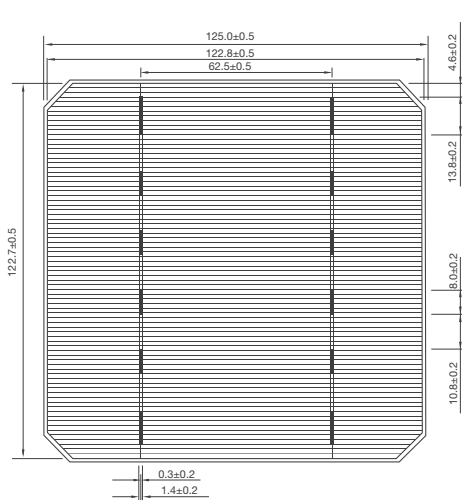
#### TEMPERATURE COEFFICIENTS

|           |          |
|-----------|----------|
| TkVoltage | -0.36%/K |
| TkCurrent | +0.06%/K |
| TkPower   | -0.36%/K |

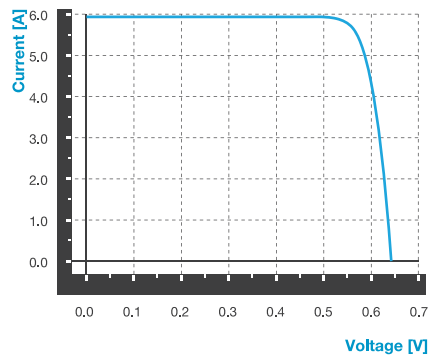
| No. | Efficiency(%) | Pmpp(W) | Ump(V) | I <sub>mp</sub> (A) | U <sub>oc</sub> (V) | I <sub>sc</sub> (A) | FF(%) |
|-----|---------------|---------|--------|---------------------|---------------------|---------------------|-------|
| 10  | 19.40-19.50   | 3.01    | 0.544  | 5.533               | 0.645               | 5.863               | 79.60 |
| 09  | 19.30-19.40   | 2.99    | 0.542  | 5.517               | 0.644               | 5.859               | 79.24 |
| 08  | 19.20-19.30   | 2.97    | 0.541  | 5.490               | 0.643               | 5.852               | 78.93 |
| 07  | 19.10-19.20   | 2.96    | 0.540  | 5.481               | 0.642               | 5.843               | 78.91 |
| 06  | 19.00-19.10   | 2.94    | 0.539  | 5.455               | 0.641               | 5.834               | 78.62 |
| 05  | 18.90-19.00   | 2.93    | 0.538  | 5.446               | 0.640               | 5.825               | 78.59 |
| 04  | 18.80-18.90   | 2.91    | 0.536  | 5.429               | 0.639               | 5.819               | 78.26 |
| 03  | 18.70-18.80   | 2.90    | 0.535  | 5.421               | 0.638               | 5.817               | 78.14 |
| 02  | 18.60-18.70   | 2.88    | 0.533  | 5.403               | 0.637               | 5.814               | 77.76 |
| 01  | 18.40-18.60   | 2.85    | 0.531  | 5.367               | 0.635               | 5.797               | 77.42 |

Specifications subjects to technical changes and tests. Just Solar reserves the right of final interpretation.

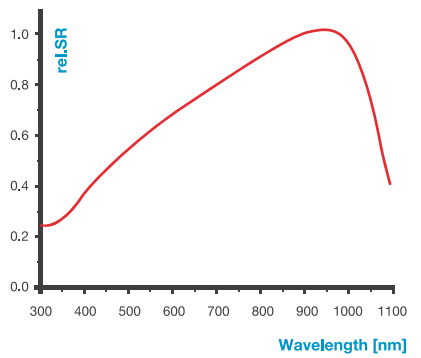
## JST M5SF-2 2BB CYPRESS2 MONOCRYSTALLINE SILICON SOLAR CELLS



### IV CURVE



### SPECTRAL RESPONSE



### INTENSITY DEPENDENCE

| Intensity [W/m <sup>2</sup> ] | Isc* | Voc* | Pmpp |
|-------------------------------|------|------|------|
| 1000                          | 1.00 | 1.00 | 1.00 |
| 900                           | 0.90 | 1.00 | 0.90 |
| 800                           | 0.80 | 0.99 | 0.79 |
| 500                           | 0.50 | 0.97 | 0.49 |
| 300                           | 0.30 | 0.95 | 0.29 |
| 200                           | 0.20 | 0.93 | 0.19 |

\*Ratio of Voc(Isc) at reduced intensity to Voc(Isc) at 1000 W/m<sup>2</sup>