

# G12-TPE

N-Type Bifacial Solar Cell



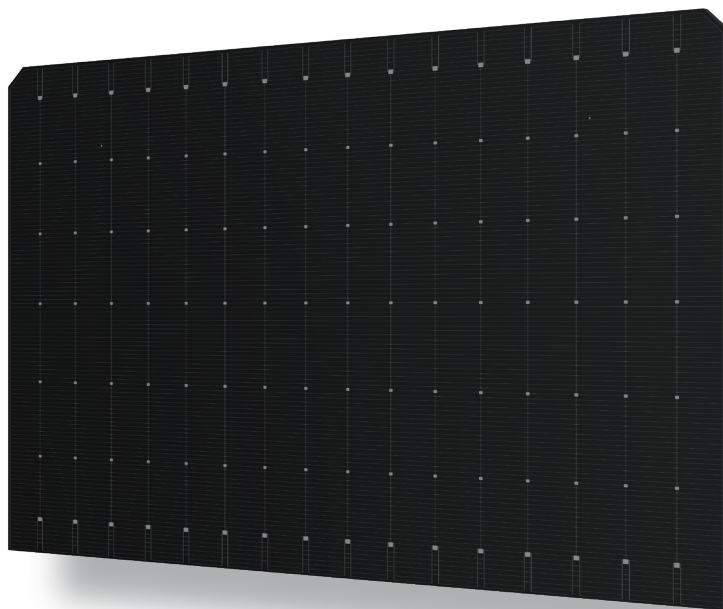
High  
Efficiency



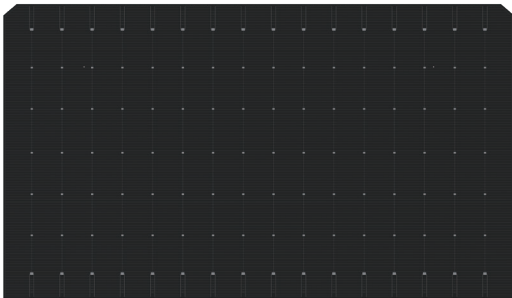
Excellent  
Quality



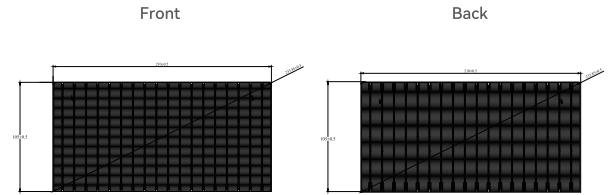
Prominent  
Reliability



# G12-TPE



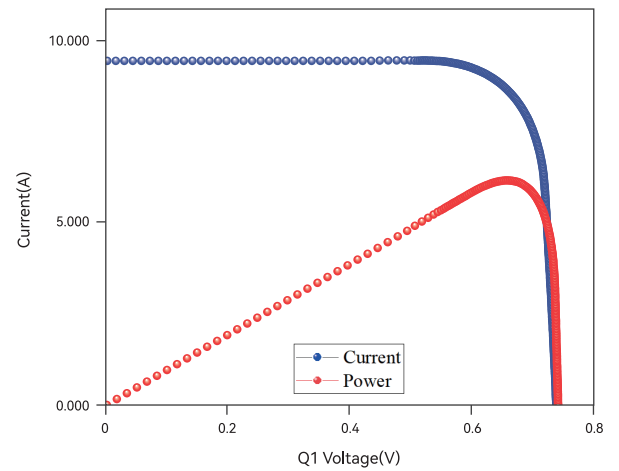
## Product Appearance



## Product Design

|                  |  |                             |
|------------------|--|-----------------------------|
| <b>Dimension</b> | 210±0.5*105±0.5mm<br>Φ233.85±0.5mm   | TkVoltage: -(0.25±0.01)%/K  |
| <b>Thickness</b> | 130±13μm   | TkCurrent: +(0.04±0.004)%/K |
| <b>Front</b>     | 18 busbars (silver), 120 fingers<br>Blue anti-reflective coating (silicon nitride) | TkPower: -(0.29±0.025)%/K   |
| <b>Back</b>      | 18 busbars (silver), 116 fingers<br>Blue anti-reflective coating (silicon nitride) | Rsh≥50Ω, Irev2±0.5A         |

## IV Curve



## Front Electrical Performance Parameters

| Eff (%) | Pmpp (W) | Vmpp (V) | Impp (A) | Voc (V) | Isc (A) | FF (%) |
|---------|----------|----------|----------|---------|---------|--------|
| 26.3    | 5.80     | 0.639    | 9.078    | 0.739   | 9.302   | 84.36  |
| 26.2    | 5.78     | 0.638    | 9.056    | 0.738   | 9.299   | 84.19  |
| 26.1    | 5.75     | 0.637    | 9.031    | 0.737   | 9.296   | 83.99  |
| 26.0    | 5.73     | 0.636    | 9.015    | 0.736   | 9.293   | 83.81  |
| 25.9    | 5.71     | 0.635    | 8.994    | 0.735   | 9.289   | 83.63  |
| 25.8    | 5.69     | 0.634    | 8.973    | 0.734   | 9.286   | 83.46  |
| 25.7    | 5.67     | 0.633    | 8.952    | 0.733   | 9.282   | 83.29  |
| 25.6    | 5.64     | 0.632    | 8.931    | 0.732   | 9.277   | 83.12  |
| 25.5    | 5.62     | 0.631    | 8.91     | 0.731   | 9.273   | 82.95  |
| 25.4    | 5.60     | 0.63     | 8.889    | 0.73    | 9.267   | 82.78  |
| 25.3    | 5.58     | 0.629    | 8.868    | 0.729   | 9.264   | 82.60  |
| 25.2    | 5.56     | 0.628    | 8.847    | 0.728   | 9.257   | 82.45  |
| 25.1    | 5.53     | 0.627    | 8.826    | 0.727   | 9.254   | 82.25  |
| 25.0    | 5.51     | 0.626    | 8.805    | 0.726   | 9.250   | 82.08  |
| 24.9    | 5.49     | 0.625    | 8.784    | 0.725   | 9.244   | 81.92  |
| 24.8    | 5.47     | 0.624    | 8.763    | 0.724   | 9.239   | 81.74  |

## Back Electrical Performance Parameters

| Eff (%)   | Pmpp (W) | Vmpp (V) | Impp (A) | Voc (V) | Isc (A) | FF (%) |
|-----------|----------|----------|----------|---------|---------|--------|
| ≥21.5     | 4.74     | 0.590    | 8.035    | 0.700   | 8.523   | 79.45  |
| 21.0-21.5 | 4.63     | 0.588    | 7.874    | 0.699   | 8.507   | 77.86  |
| 20.5-21.0 | 4.52     | 0.587    | 7.700    | 0.698   | 8.475   | 76.41  |
| < 20.5    | 4.41     | 0.585    | 7.538    | 0.697   | 8.453   | 74.85  |

STC (Standard Testing Conditions): 1000W/m<sup>2</sup>, AM1.5, 25°C  
26.01.06