**STAR™ II**

**335W~360W**

5BB-Monocrystalline PV Module

CHSM6612M(DG) Series (With Frame)

CHSM6612M(DGT) Series (With Frame)

CHSM6612M (DG) is double glass module with white encapsulant material

CHSM6612M (DGT) is double glass module with transparent encapsulant material

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**KEY FEATURES**

- **ENHANCED FIRE PERFORMANCE**
  - Fire Class A certified according to IEC standard.

- **EXCELLENT WEATHER RESISTANCE**
  - Reduces the cell micro-crack and extended product warranty.

- **PID RESISTANCE**
  - Excellent PID resistance at 96 hours (@85°C /85%) test, and also can be improved to meet higher standards for the particularly harsh environment.

- **FRAMED DOUBLE GLASS STRUCTURE**
  - Similar to conventional modules design, better correspond with installation requirements in current market.

- **APPLICABLE FOR MULTI DIFFERENT ENVIRONMENTS**
  - Alternative transparent or white encapsulant.

- **SNAIL TRAIL RESISTANCE**
  - Reduces the probability of snail trails with zero water vapor transmittance.

- **STRONGER STRUCTURE**
  - Better cell micro-crack resistance.

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**10-year Warranty for Materials and Processing**

**30-year Warranty for Extra Linear Power Output**

(1st year ≤ 3%, 2nd~30th years ≤ 0.5% / year)

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First solar company which passed the TUV Nord IEC/TS 62941 certification audit.

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**COMPREHENSIVE CERTIFICATES**

- Bloomberg Tier 1
- MunichRe No.1
- DNV GL

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STAR™ II - No.1 Bloomberg PHOTON Insured 2017 Top Performance

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For Global Market

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A CHINT COMPANY

ASTRONERGY
**ELECTRICAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>STC</th>
<th>NOCT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Rated output (P_{mpp})</strong></td>
<td>335 Wp</td>
<td>246.7 Wp</td>
</tr>
<tr>
<td><strong>Rated voltage (V_{mpp})</strong></td>
<td>38.01 V</td>
<td>35.07 V</td>
</tr>
<tr>
<td><strong>Rated current (I_{mpp})</strong></td>
<td>8.82 A</td>
<td>7.03 A</td>
</tr>
<tr>
<td><strong>Open circuit voltage (V_{oc})</strong></td>
<td>46.29 V</td>
<td>49.22 V</td>
</tr>
<tr>
<td><strong>Short circuit current (I_{sc})</strong></td>
<td>9.32 A</td>
<td>7.49 A</td>
</tr>
<tr>
<td><strong>Module efficiency</strong></td>
<td>17.0%</td>
<td>17.0%</td>
</tr>
<tr>
<td><strong>Rated output (P_{mpp}) at NOCT</strong></td>
<td>250.4 Wp</td>
<td>257.8 Wp</td>
</tr>
<tr>
<td><strong>Rated voltage (V_{mpp}) at NOCT</strong></td>
<td>35.36 V</td>
<td>35.83 V</td>
</tr>
<tr>
<td><strong>Rated current (I_{mpp}) at NOCT</strong></td>
<td>7.08 A</td>
<td>7.15 A</td>
</tr>
<tr>
<td><strong>Open circuit voltage (V_{oc}) at NOCT</strong></td>
<td>43.25 V</td>
<td>43.54 V</td>
</tr>
<tr>
<td><strong>Short circuit current (I_{sc}) at NOCT</strong></td>
<td>7.52 A</td>
<td>7.58 A</td>
</tr>
</tbody>
</table>

- Temperature coefficient (P_{mpp}) = -0.408%/°C
- Temperature coefficient (I_{sc}) = +0.044%/°C
- Temperature coefficient (V_{oc}) = -0.301%/°C

**Normal operating cell temperature (NOCT)**

- 46±2°C

**Maximum system voltage (IEC/UL)**

- 1500V DC

**Number of diodes**

- 3

**Junction box IP rating**

- IP 67

**Maximum series fuse rating**

- 15 A

*Measurement tolerance +/-3%*

**STC:** Irradiance 1000W/m², Cell Temperature 25°C, AM=1.5

**NOCT:** Irradiance 800W/m², Ambient Temperature 20°C, AM=1.5, Wind Speed 1m/s

**MECHANICAL SPECIFICATIONS**

- **Outer dimensions (L x W x H)**: 1974 x 998 x 35 mm / 77.72 x 39.29 x 1.38 in
- **Frame technology**: Aluminum, silver anodized
- **Module composition**: Glass / EVA or POE / Glass
- **Front glass thickness**: 2.5 mm / 0.098 in
- **Cable length (IEC/UL)**: 250mm / 13.78 in
- **Cable diameter (IEC/UL)**: 4 mm² / 12 AWG
- **Maximum mechanical test load**: 7000 Pa
- **Fire performance (IEC/UL)**: Class A (IEC) or Type 3 (UL)
- **Connector type (IEC/UL)**: MC4 compatible

**PACKING SPECIFICATIONS**

- **Weight (module only)**: 30.3 kg / 66.80 lbs
- **Packing unit**: 31 pcs / box
- **Weight of packing unit (for 40'HQ container)**: 998 kg / 2200 lbs
- **Number of modules per 40'HQ container**: 682 pcs

- **Tolerance**: +/-1.0kg
- **Subject to sales contract**

**MODULE DIMENSION DETAILS**

- **Ground hole**
- **Drainage hole**
- **16-3.5 mm x 8.5 mm (0.011 feet x 0.028 feet)**
- **19 mm/0.74 feet**
- **11 mm/0.036 feet**
- **20 mm/0.066 feet**

*No mounting hole on the frame*

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