

# Datasheet

## Crystalline PV Module

### CHSM6612P Series

EN

|     |     |     |     |     |
|-----|-----|-----|-----|-----|
| 295 | 300 | 305 | 310 | 315 |
|-----|-----|-----|-----|-----|

#### ELECTRICAL SPECIFICATIONS

|                                              |                      |          |          |          |          |
|----------------------------------------------|----------------------|----------|----------|----------|----------|
| STC rated output ( $P_{mpp}$ )*              | 295 Wp               | 300 Wp   | 305 Wp   | 310 Wp   | 315 Wp   |
| PTC rated output ( $P_{mpp}$ )**             | 268.5 Wp             | 273.2 Wp | 277.8 Wp | 282.5 Wp | 287.2 Wp |
| Standard sorted output                       | 0/+5 Wp              |          |          |          |          |
| Warranted power output STC ( $P_{nominal}$ ) | 295 Wp               | 300 Wp   | 305 Wp   | 310 Wp   | 315 Wp   |
| Rated voltage ( $V_{mpp}$ ) at STC           | 35.72 V              | 35.74 V  | 35.77 V  | 35.80 V  | 35.83 V  |
| Rated current ( $I_{mpp}$ ) at STC           | 8.30 A               | 8.40 A   | 8.53 A   | 8.68 A   | 8.80 A   |
| Open circuit voltage ( $V_{oc}$ ) at STC     | 45.03 V              | 45.16 V  | 45.29 V  | 45.42 V  | 45.55 V  |
| Short circuit current ( $I_{sc}$ ) at STC    | 8.87 A               | 8.91 A   | 8.95 A   | 8.99 A   | 9.02 A   |
| Module efficiency                            | 15.2%                | 15.4%    | 15.7%    | 15.9%    | 16.2%    |
| Rated output ( $P_{mpp}$ ) at NOCT           | 206.0 Wp             | 209.5 Wp | 213.0 Wp | 216.5 Wp | 220.0 Wp |
| Rated voltage ( $V_{mpp}$ ) at NOCT          | 32.47 V              | 32.63 V  | 32.67 V  | 32.70 V  | 32.71 V  |
| Rated current ( $I_{mpp}$ ) at NOCT          | 6.34 A               | 6.42 A   | 6.52 A   | 6.62 A   | 6.73 A   |
| Open circuit voltage ( $V_{oc}$ ) at NOCT    | 41.32 V              | 41.44 V  | 41.56 V  | 41.68 V  | 41.80 V  |
| Short circuit current ( $I_{sc}$ ) at NOCT   | 6.86 A               | 6.89 A   | 6.92 A   | 6.95 A   | 6.98 A   |
| Temperature coefficient ( $P_{mpp}$ )        | - 0.408%/K           |          |          |          |          |
| Temperature coefficient ( $I_{sc}$ )         | +0.050%/K            |          |          |          |          |
| Temperature coefficient ( $I_{mpp}$ )        | - 0.003%/K           |          |          |          |          |
| Temperature coefficient ( $V_{mpp}$ )        | - 0.406%/K           |          |          |          |          |
| Temperature coefficient ( $V_{oc}$ )         | - 0.311%/K           |          |          |          |          |
| Normal operating cell temperature (NOCT)     | 46±2°C               |          |          |          |          |
| Maximum system voltage (UL/IEC)              | 1000 V <sub>dc</sub> |          |          |          |          |
| Number of diodes                             | 6 (or 3)             |          |          |          |          |
| Maximum series fuse rating                   | 15 A                 |          |          |          |          |

\* Measurement tolerance +/- 3%  
 \*\* Estimated



## RELATED PARAMETERS

|                                    |                   |
|------------------------------------|-------------------|
| Cell type                          | polycrystalline   |
| Number of cells / cell arrangement | 72 / 6 x 12       |
| Cells dimension                    | 6"                |
| Packing unit                       | 20 modules        |
| Weight of packing unit             | 528 kg / 1162 lbs |

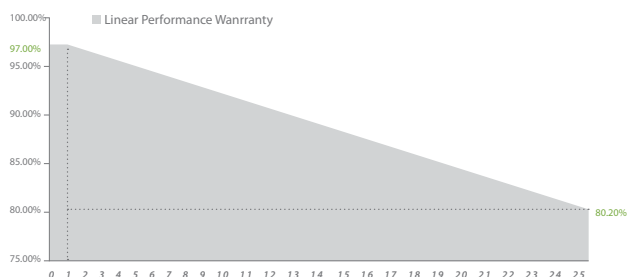
## MECHANICAL SPECIFICATIONS

|                              |                                               |
|------------------------------|-----------------------------------------------|
| Outer dimensions (L x W x H) | 1956 x 994 x 50 mm<br>77.01 x 39.13 x 1.97 in |
| Frame technology             | Aluminum, silver anodized                     |
| Module composition           | Glass / EVA / Backsheet (white)               |
| Weight (module only)         | 23.5 kg / 51.7 lbs                            |
| Front glass thickness        | 3.2 mm / 0.13 in                              |
| Junction box IP rating       | IP 65 (above)                                 |
| *Cable length (UL/IEC)       | 1150 mm / 45.28 in                            |
| Cable diameter (UL/IEC)      | 12 AWG / 4 mm <sup>2</sup>                    |
| Maximum load capacity        | 5400 Pa                                       |
| Fire performance (UL/IEC)    | Type 1 (UL) or Class C (IEC)                  |
| Connector type (UL/IEC)      | MC type 4 compatible                          |

\* Option: 1000 mm for defined projects in advance.

## QUALIFICATION AND LINEAR WARRANTIES

|                                                             |                                          |
|-------------------------------------------------------------|------------------------------------------|
| Product standard                                            | IEC 61215, 61730 / UL 1703               |
| Extended product warranty                                   | 10 years                                 |
| Output decline 3%/year performance P <sub>mpp</sub> (STC)   | 1 <sup>st</sup> year                     |
| Output decline 0.7%/year performance P <sub>mpp</sub> (STC) | 2 <sup>nd</sup> ~ 25 <sup>th</sup> years |



## ARTICLE NUMBER (per panel)-CHSM6612P Series

| Model         | Article No. (IEC) | Article No. (UL) |
|---------------|-------------------|------------------|
| CHSM6612P-295 | 200036            | 200043           |
| CHSM6612P-300 | 200209            | 200211           |
| CHSM6612P-305 | 200210            | 200212           |
| CHSM6612P-310 | 200277            | 200278           |
| CHSM6612P-315 | 200363            | 200364           |

## MODULE DIMENSION DETAILS

| Front view | Side view | Rear view | Frame cross section |
|------------|-----------|-----------|---------------------|
|            |           |           |                     |

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