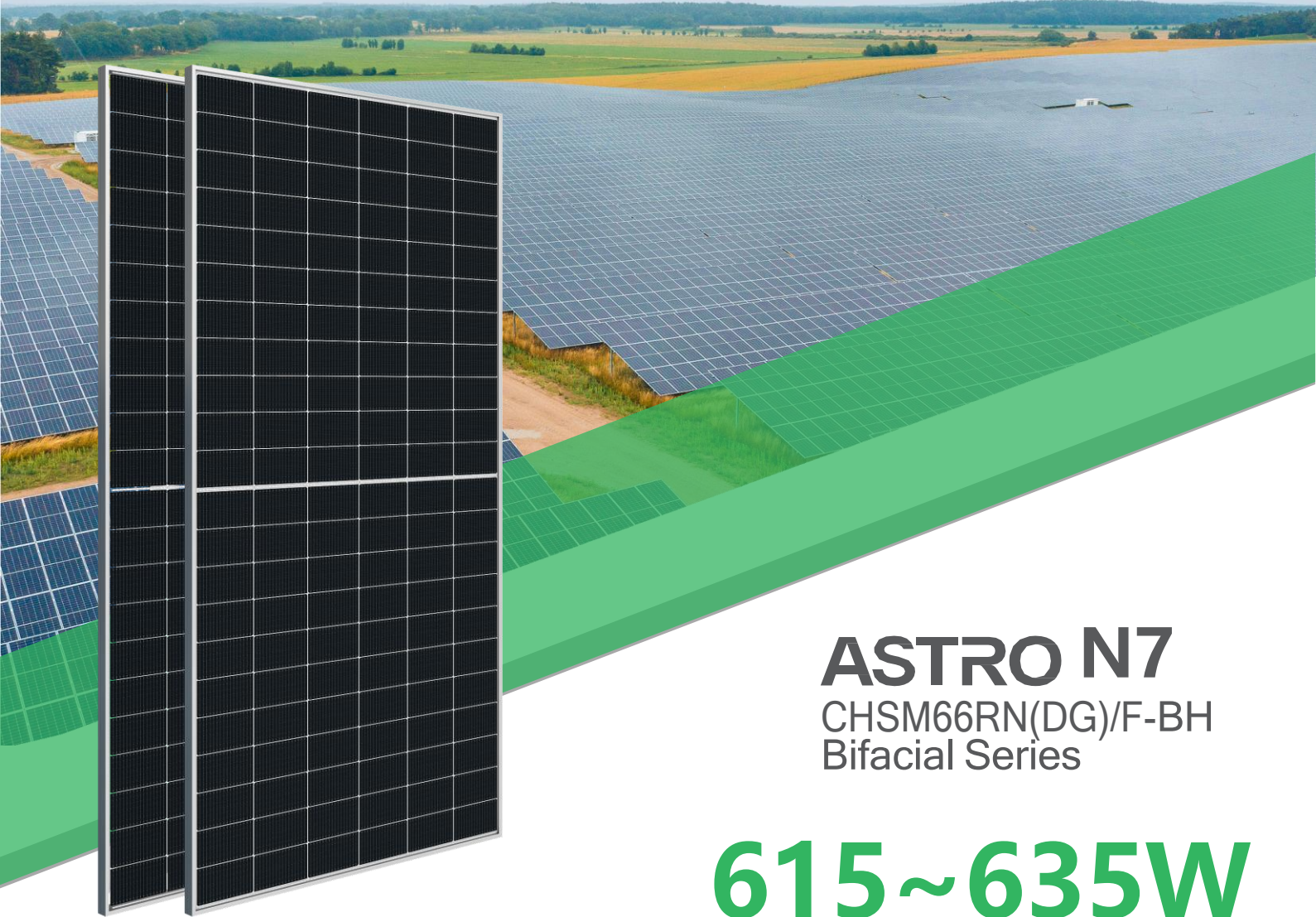




ASTRONERGY

# T1-SLP-132-625-BIP-AST



## ASTRO N7

CHSM66RN(DG)/F-BH  
Bifacial Series

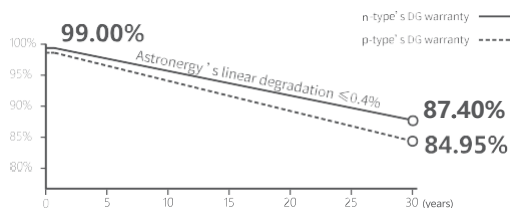
# 615~635W



### Warranty

**15** 15-year Product Warranty

**30** 30-year Linear Power Warranty



### n-type TOPCon 4.0/5.0

Novel upgrade, enhancing module efficiency



### SMBB Design

Enhancing current collection, minimizing power loss



### Low Voc Design

Increasing modules per string, lower BOS cost



### Bifacial Power Generation

Maximizing bifaciality, boosting backside power output



IEC 61215, IEC 61730  
ISO 9001:2015:ISO Quality Management System  
ISO 14001:2015:ISO Environment Management System  
ISO 45001:Occupational Health and Safety  
The first solar company which passed the Nord IEC/TS 62941 certification audit



Tier 1  
sBloombergNEF



**615~635W**

POWER RANGE

**0~+3%**

POWER SORTING

**23.5%**MAX MODULE  
EFFICIENCY**≤ 1.0%**FIRST YEAR  
POWER DEGRADATION**≤ 0.4%**YEAR 2-30  
POWER DEGRADATION

## Mechanical Specifications

|                                              |                                                          |                    |
|----------------------------------------------|----------------------------------------------------------|--------------------|
| Outer dimensions (L x W x H)                 | 2382 x 1134 x 30 mm                                      |                    |
| Cell type                                    | n-type mono-crystalline                                  |                    |
| No. of cells                                 | 132 (6*22)                                               | 4-Φ5.5 mm          |
| Frame technology                             | Aluminum, silver anodized                                | Ground hole        |
| Front / Back glass                           | 2.0+2.0 mm                                               | 4-9 mm x 14 mm     |
| Cable length (Including connector)           | Portrait: ( + )350 mm,( - )250 mm ;<br>Customized length | Mounting hole      |
| Cable diameter (IEC/UL)                      | 4 mm <sup>2</sup> / 12 AWG                               |                    |
| ④ Maximum mechanical test load               | 5400 Pa (front) / 2400 Pa (back)                         | 8-7 mm x 10 mm     |
| Connector type (IEC/UL)                      | HCB40 (Standard) / MC4-EVO2A (Optional)                  | Mounting hole      |
| Module weight                                | 31.65 kg                                                 |                    |
| Packing unit                                 | 36 pcs / box                                             | 16-3.5 mm x 8.5 mm |
| Weight of packing unit (for 40'HQ container) | 1190 kg                                                  | Drainage hole      |
| Modules per 40' HQ container                 | 720 pcs (Subject to sales contract)                      |                    |

④ Refer to Astronergy crystalline installation manual or contact technical department.  
Maximum Mechanical Test Load=1.5×Maximum Mechanical Design Load.

## Electrical Specifications

**STC:** Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25° C, AM=1.5, Power measurement tolerance: ±3%

|                                                  |       |       |       |       |       |
|--------------------------------------------------|-------|-------|-------|-------|-------|
| Rated output (P <sub>mp</sub> / W <sub>p</sub> ) | 615   | 620   | 625   | 630   | 635   |
| Rated voltage (V <sub>mp</sub> / V)              | 41.43 | 41.56 | 41.69 | 41.82 | 41.86 |
| Rated current (I <sub>mp</sub> / A)              | 14.84 | 14.92 | 14.99 | 15.07 | 15.17 |
| Open circuit voltage (V <sub>oc</sub> / V)       | 48.89 | 49.04 | 49.19 | 49.34 | 49.42 |
| Short circuit current (I <sub>sc</sub> / A)      | 16.02 | 16.11 | 16.19 | 16.27 | 16.35 |
| Module efficiency                                | 22.8% | 23.0% | 23.1% | 23.3% | 23.5% |

**BNPI:** Irradiance: front 1000W/m<sup>2</sup>, rear 135W/m<sup>2</sup>, Cell Temperature 25° C, AM=1.5

|                                                  |       |       |       |       |       |
|--------------------------------------------------|-------|-------|-------|-------|-------|
| Rated output (P <sub>mp</sub> / W <sub>p</sub> ) | 678.1 | 683.6 | 689.1 | 694.6 | 702.3 |
| Rated voltage (V <sub>mp</sub> / V)              | 41.44 | 41.57 | 41.70 | 41.83 | 41.87 |
| Rated current (I <sub>mp</sub> / A)              | 16.36 | 16.44 | 16.52 | 16.60 | 16.77 |
| Open circuit voltage (V <sub>oc</sub> / V)       | 48.90 | 49.05 | 49.20 | 49.35 | 49.43 |
| Short circuit current (I <sub>sc</sub> / A)      | 17.73 | 17.81 | 17.90 | 17.99 | 18.13 |

## Temperature Ratings (STC)

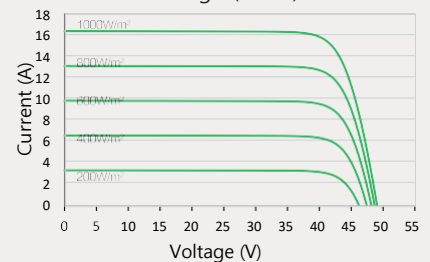
|                                            |            |
|--------------------------------------------|------------|
| Temperature coefficient (P <sub>mp</sub> ) | -0.29%/°C  |
| Temperature coefficient (I <sub>sc</sub> ) | +0.043%/°C |
| Temperature coefficient (V <sub>oc</sub> ) | -0.25%/°C  |

## Operating Parameters

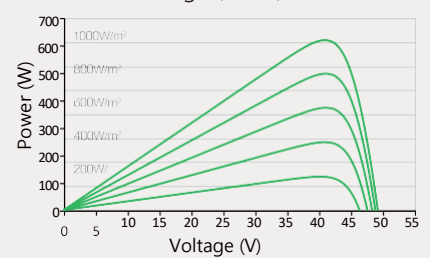
|                                |                     |
|--------------------------------|---------------------|
| Operating Temperature          | -40°C ~+85°C        |
| Bifaciality (P <sub>mp</sub> ) | 80±5%               |
| Junction box IP rating         | IP 68               |
| Max. series fuse rating        | 35 A                |
| Max. system voltage (IEC/UL)   | 1500V <sub>DC</sub> |

## Curve

Current-Voltage (625W)



Power-Voltage (625W)



Current-Voltage (625W)

