

Mono

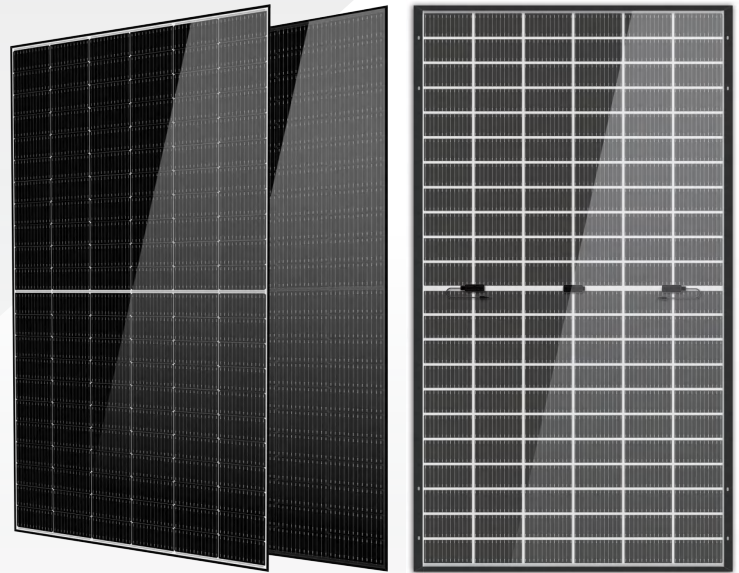
Bifacial

HORAY

Solar Galaxy

670–700 Watt N-Type MONO-BIFACIAL MODULE

- IEC61215: 2021
- IEC61730: 2016
- TUV Rheinland Standard
- Lloyd'S Ariel Re
- Solar Performance Insurance
- ISO9001: 2015
- Quality Management System
- ISO14001:
- Environmental Management System
- CE: Europe Standard
- Inmetro Certificate
- Japan JP-AC



KEY FEATURES



SMBB Cell

More uniform current collection capability, reducing the current heat loss of the internal cells.



Low Light Features

Higher performance under low light environment.



Higher Output Power

The output power of 132 half-cells Monocrystalline modules is up to 700W.



LID Free

N-type solar cell has no LID naturally which can increase power generation.



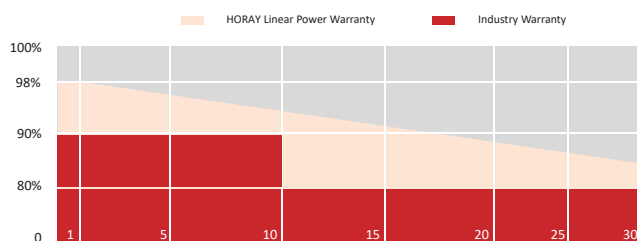
Harsh Environmental Adaptability

Strict salt spray and ammonia corrosion test by the third party.



Load Capacity

Mechanical load tests including wind load 2400 Pa and snow load 5400 Pa.



HEADQUARTER: HORAY SOLAR CO., LTD.

GLOBAL MARKETING AND SERVICE: HORAY SOLAR GMBH

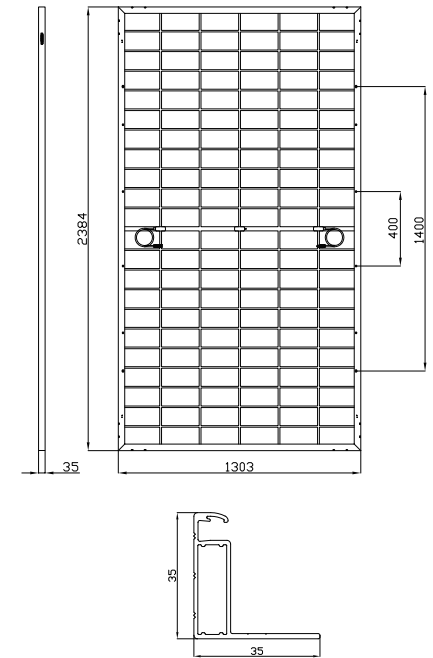
✉ sales@horaysolar.com 🌐 www.horaysolar.com ☎ +86-510 83580688
 📍 NO.30-5, East Yanxin Road, Huishan District, Wuxi 214177 Jiangsu P.R China

✉ info@horaysolar.com 🌐 www.horaysolar.com
 📍 Robert-Bosch-Str. 29, Langen, Frankfurt am Main, Germany

SPECIFICATIONS

Weight	38.5kg
Dimension	2384mm*1303mm*35mm
Cell Dimension	210*105mm
Cell Amount	66*2 pcs
Maximum System Voltage	1500V
Junction Box	IP68
Type of the front glass	2.0mm Coated ultra clear glass
Type of the back glass	2.0mm Heat-strengthened glass
Frame	Aluminum Alloy
Cable	4mm ² ,+300,-300mm/±1300mm Length can be customized
Connector	MC4 compatible
Application Level	Class A

MECHANICAL DIAGRAMS



ELECTRICAL PARAMETERS AT STC

Module Type	HS670TC-MHG-D	HS675TC-MHG-D	H680TC-MHG-D	HS685TC-MHG-D	HS690TC-MHG-D	HS695TC-MHG-D	HS700TC-MHG-D
Power	670W	675W	680W	685W	690W	695W	700W
Open Circuit Voltage	48.40V	48.51V	48.77V	48.84V	49.10V	49.50V	49.63V
Short Circuit Current	17.91A	18.02A	18.06A	18.14A	18.23A	18.32A	18.41A
Maximum Power Voltage	41.51V	41.59V	41.78V	41.91V	42.01V	42.11V	42.21V
Maximum Power Current	16.14A	16.23A	16.27A	16.34A	16.43A	16.51A	16.58A
Module Efficiency	21.57%	21.73%	21.89%	22.05%	22.21%	22.37%	22.53%

* Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.

ELECTRICAL PARAMETERS AT BNPI

Power	737W	743W	748W	754W	759W	765W	770W
Open Circuit Voltage	48.40V	48.51V	48.77V	48.84V	49.10V	49.50V	49.63V
Short Circuit Current	18.69A	18.80A	18.85A	18.93A	19.03A	19.12A	19.21A
Maximum Power Voltage	41.51V	41.59V	41.78V	41.91V	42.01V	42.11V	42.21V
Maximum Power Current	17.75A	17.85A	17.90A	17.98A	18.07A	18.16A	18.24A

*Rear side power gain: The additional gain from the rear side compared to the power of the front side at the standard test condition. It depends on mounting (structure,height,tilt angle etc.)and albedo of the ground.

ELECTRICAL PARAMETERS AT NMOT

Power	446W	450W	454W	458W	461W	465W	466W
Open Circuit Voltage	48.40V	48.51V	48.77V	48.84V	49.10V	49.50V	49.63V
Short Circuit Current	12.64A	12.67A	12.7A	12.73A	12.76A	12.78A	13.78A
Maximum Power Voltage	41.51V	41.59V	41.78V	41.91V	42.01V	42.11V	42.21V
Maximum Power Current	12.02A	12.05A	12.08A	12.12A	12.14A	12.16A	13.16A

* Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

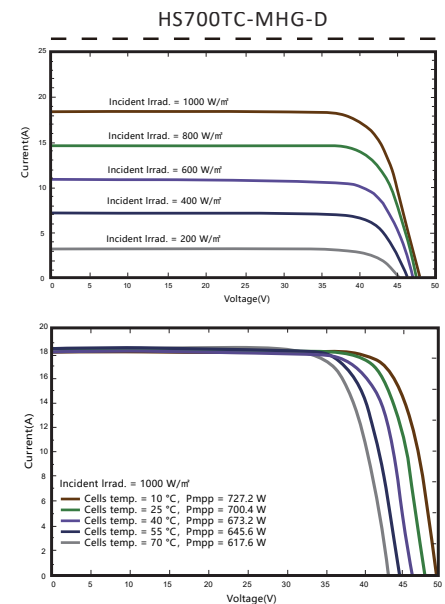
TEMPERATURE CHARACTERISTICS

NMOT	45±2°C
Temp Coefficient of ISC	+0.04%/°C
Temp Coefficient of VOC	-0.23%/°C
Temp Coefficient of Pmax	-0.28%/°C

PACKING CONFIGURATION

Modules/Pallet	31 Pieces
Packaging Description	18 Pallets, Total=(31+31)x9=558 Pieces
Modules/40' Container	558 Pieces

IV CHARACTERISTICS



MAXIMUM RATING

Power selection	0~+5W
Measuring uncertainty of Pm	0~±3%
Operating Temperature	-40°C~+85°C
Wind Load/Snow Load	2400pa/5400pa
Fuse Current	30A



Quality
Warranty



Power
Warranty

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

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