

Mono

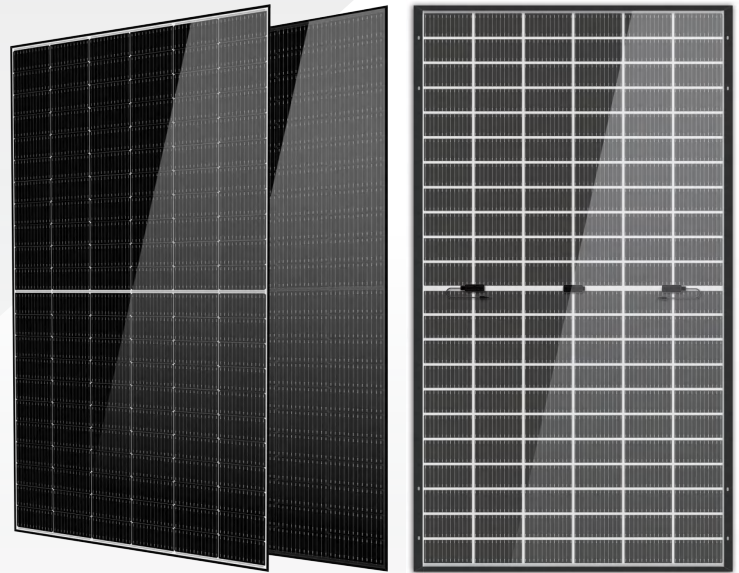
Bifacial

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.



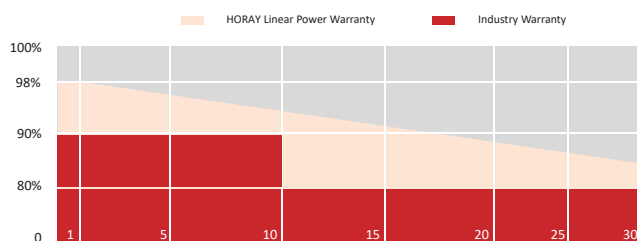
Harsh Environmental Adaptability

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

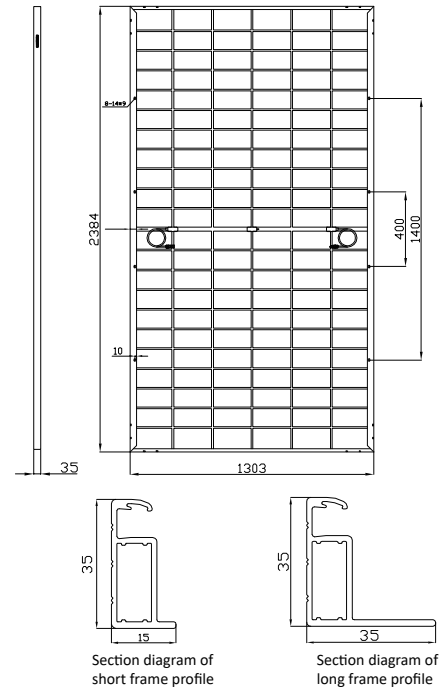
✉ sales@horaysolar.com 🌐 www.horaysolar.com ☎ +86-510 83580688
 📍 NO.30-5, East Yanxin Road, Huishan District, Wuxi 214177 Jiangsu P.R China

✉ 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	48.25V	48.38V	48.51V	48.64V	48.84V	49.43V	49.50V
Short Circuit Current	17.43A	17.48A	17.55A	17.60A	17.61A	17.63A	17.68A
Maximum Power Voltage	41.51V	41.71V	41.84V	42.04V	42.31V	42.57V	42.77V
Maximum Power Current	16.14A	16.18A	16.25A	16.29A	16.31A	16.33A	16.37A
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	48.25V	48.38V	48.51V	48.64V	48.84V	49.43V	49.50V
Short Circuit Current	19.17A	19.22A	19.31A	19.36A	19.38A	19.40A	19.44A
Maximum Power Voltage	41.51V	41.71V	41.84V	42.04V	42.31V	42.57V	42.77V
Maximum Power Current	17.75A	17.80A	17.88A	17.92A	17.94A	17.96A	18.00A

*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	511W	514W	518W	522W	526W	530W	533W
Open Circuit Voltage	45.59V	45.72V	45.84V	45.97V	46.15V	46.72V	46.78V
Short Circuit Current	13.96A	13.99A	14.05A	14.09A	14.10A	14.12A	14.15A
Maximum Power Voltage	38.77V	38.96V	39.08V	39.27V	39.51V	39.76V	39.95V
Maximum Power Current	13.17A	13.20A	13.26A	13.29A	13.31A	13.32A	13.35A

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

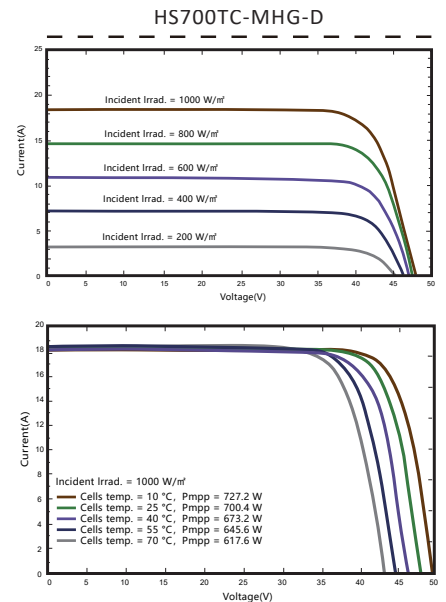
TEMPERATURE CHARACTERISTICS

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

15 YEARS

Quality
Warranty

30 YEARS

Power
Warranty

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

©2024 Horay Solar Co.,Ltd. All rights reserved. Specifications included in this datasheet are subject to change without notice.

Version number: TC_MHG_D_EN_2024_A