

Mono

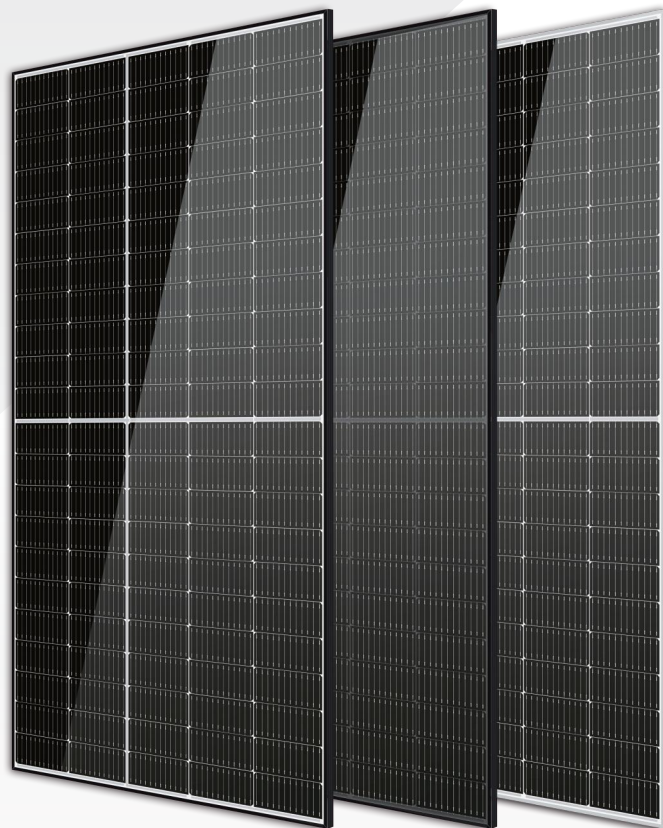
Bifacial

HORAY

Solar Galaxy

535–550 Watt MONO-FACIAL 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



KEY FEATURES



MBB 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 110 half-cells Monocrystalline modules is up to 550W.



PID Protection

Ensure the attenuation probability caused by PID phenomenon is minimized.



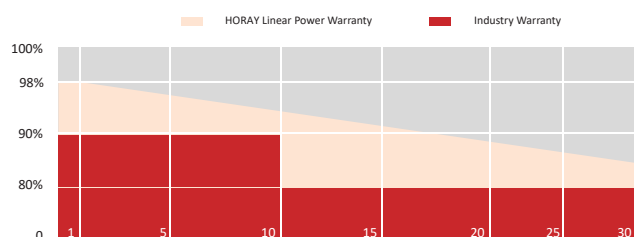
Harsh Environmental Adaptability

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.



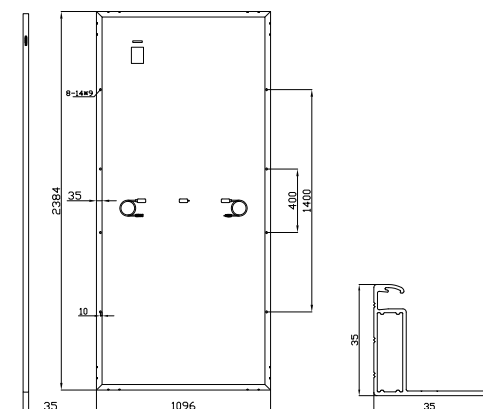
HEADQUARTER: HORAY SOLAR CO., LTD.

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

MECHANICAL DIAGRAMS



SPECIFICATIONS

Weight	29.5kg
Dimension	2384mm*1096mm*35mm
Cell Dimension	210*105mm
Cell Amount	55*2 pcs
Maximum System Voltage	1500V
Junction Box	IP68
Frame	Aluminum Alloy
Cable	4mm ² , +300,-300mm/±1300mm Length can be customized
Connector	MC4 compatible
Application Level	Class A

ELECTRICAL PARAMETERS AT STC

Module Type	HS535-MHG	HS540-MHG	HS545-MHG	HS550-MHG
Power	535W	540W	545W	550W
Open Circuit Voltage	37.66V	37.86V	38.06V	38.26V
Short Circuit Current	18.07A	18.12A	18.17A	18.22A
Maximum Power Voltage	31.36V	31.56V	31.76V	31.96V
Maximum Power Current	17.06A	17.11A	17.16A	17.21A
Module Efficiency	20.48%	20.67%	20.86%	21.05%

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

ELECTRICAL PARAMETERS AT NMOT

Power	405W	409W	413W	417W
Open Circuit Voltage	34.95V	35.13V	35.32V	35.51V
Short Circuit Current	14.82A	14.86A	14.90A	14.94A
Maximum Power Voltage	29.07V	29.26V	29.44V	29.63V
Maximum Power Current	13.93A	13.98A	14.03A	14.08A
Module Efficiency	15.50%	15.65%	15.81%	15.96%

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

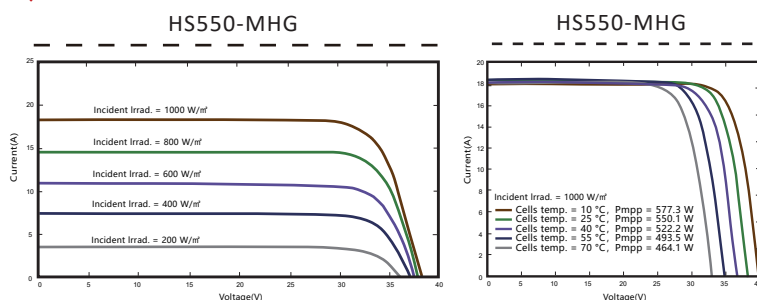
TEMPERATURE CHARACTERISTICS

NMOT	45±2°C	Temp Coefficient of ISC	+0.05%/°C
Temp Coefficient of VOC	-0.28%/°C	Temp Coefficient of Pmax	-0.34%/°C

PACKING CONFIGURATION

Modules/Pallet	31 Pieces	Modules/40'Container	620 Pieces
Packaging Description	20 Pallets, Total=(31+31)x10=620 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

12 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: MHG_EN_2024_A