

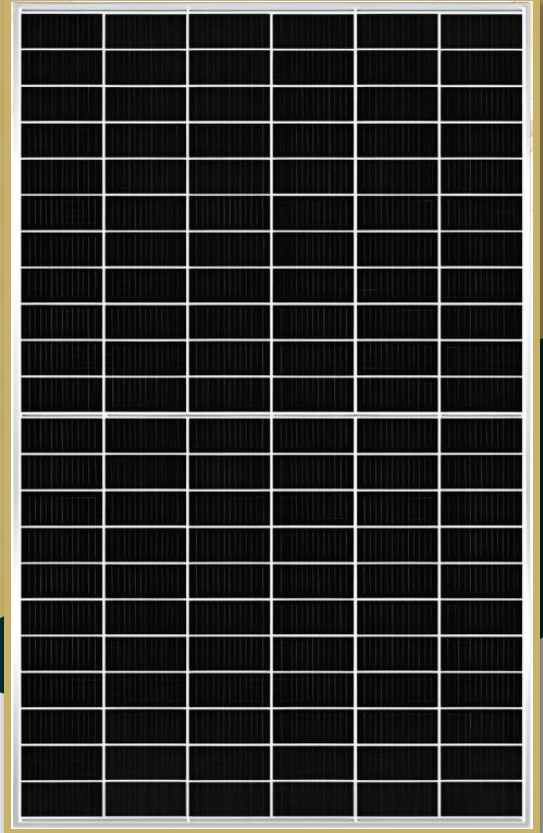


USA Manufacturer

1.2 GW Plant in Forest, VA

SOLARIX MAGNUS HJT G12R SERIES UTILITY MODULE

BIFACIAL MODULE WITH DUAL GLASS



PRODUCT CERTIFICATES (In Progress)
IEC 61215/IEC 61730/UL 61730/ TÜV

EXCEPTIONAL WARRANTY

20 year Enhanced Product Warranty

30 year Linear Power Performance Warranty

- ✓ HJT 3.0 Technology providing the HIGHEST cell efficiency and higher module power
- ✓ Module power up to 650 W
- ✓ Module efficiency up to 24.1%
- ✓ Up to 95% Bifaciality facilitating more energy yield from backside with dual glass
- ✓ Compatible with mainstream trackers, cost effective for utility scale plants
- ✓ 1st year power degradation no more than 1%, subsequent annual power degradation no more than 0.3%

MANAGEMENT SYSTEM CERTIFICATES (In Progress)

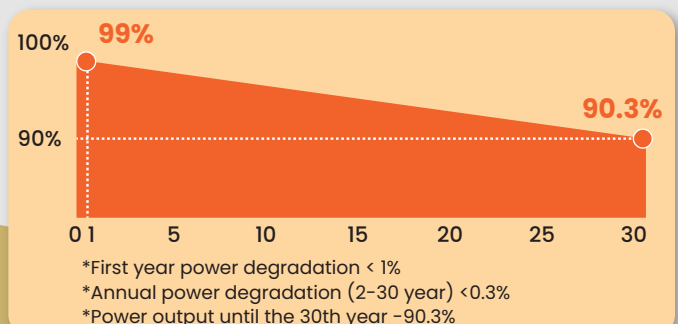
ISO 9001 : 2015 / Quality management system

ISO 14001 : 2015 / Standards for environmental management system

ISO 45001 : 2018 / International standards for occupational health & safety

MORE RELIABLE WITH LOWER DEGRADATION

-  Low risk of hot spot temperature, greatly reduced module failure rate
-  Minimizes micro-crack impacts
-  Heavy snow load up to 5400 Pa, wind load up to 2400 Pa



 2150 Perrowville Road, Forest, VA 24551

 www.solarix.group



SOLARIX Magnus HJT G12R SERIES UTILITY MODULE

ELECTRICAL DATA | STC*

	Nominal Opt. Max. (Vmp)	Opl. Operating Voltage (Vmp)	Opl. Operating Current (Imp)	open circuit voltage (Voc)	Short Circuit Current (Isc)	Module Efficiency
SIHTJG12R-650	650 W	41.49V	15.63A	49.70V	16.56A	24.10%
SIHTJG12R-645	645 W	41.50V	15.55A	49.61V	16.46A	23.90%
SIHTJG12R-640	640 W	41.41V	15.47A	49.52V	16.36A	23.70%
SIHTJG12R-635	635 W	41.32V	15.39A	49.43V	16.26A	23.50%

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

ELECTRICAL DATA | BSTC**

	Nominal Max Power (Pmax)	Opl. Operating Voltage (Vmp)	Opl. Operating Current (Imp)	Open Circuit Voltage (Voc)	Short Circuit Current (Isc)
SIHTJG12R-650	728 W	41.73V	17.47A	49.87V	18.57A
SIHTJG12R-645	723 W	41.64V	17.37A	49.78V	18.46A
SIHTJG12R-640	717 W	41.55V	17.27A	49.69V	18.35A
SIHTJG12R-635	712 W	41.46V	17.18A	49.60V	18.24A

* BSTC: Front side irradiation 1000W/m², back side reflection irradiation 135W/m², AM=1.5, ambient temperature 25 °C

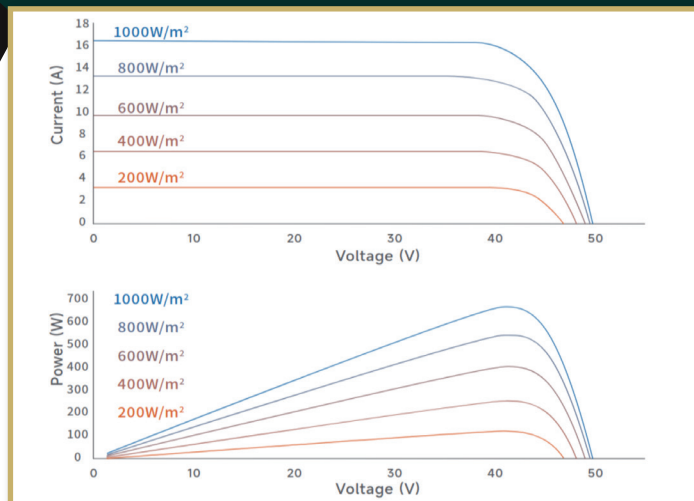
TEMPERATURE CHARACTERISTICS

Specification	Data
Temperature Coefficient (Pmax)	-0.24 %/°C
Temperature Coefficient (Voc)	-0.22 %/°C
Temperature Coefficient (Isc)	0.04 %/°C
Nominal Module Operating Temperature	44 ± 2°C

OPERATING CONDITIONS

Operating Temperature	-40°C~+85°C
Max. System Voltage	DC1500 V (IEC/UL)
Safety Class	Class II
Max. Series Fuse Rating	30 A
Tolerance of Pmax	0~+3%
Power Sorting	0~+5W
Power Bifaciality	90±5%

IV CURVES



MECHANICAL DATA

Specification	Data
Cell Type	N-type HJT G12R (182 x 105 mm)
Cell Arrangement	132 [2 x (11 x 6)]
Dimensions	2382x1134x35 mm (7.815*3.72 ft)
Weight	34.3 kg (75.62 lbs)
Front Glass	2.0 mm heat strengthened glass with anti-reflective coating
Back Glass	2.0 mm heat strengthened glass
Frame	U.S. Steel ZMAG TM Coated Steel
J-Box	IP68, 3 bypass diodes
Cable	4.0 mm ² (IEC), 10 AWG (UL)
Cable Length (Including Connector)	410 mm (16.1 in) (+) / 250 mm (9.8 in) (-) or customized length*
Connector	PV-H4 or MC4-EVO2 or MC4
Per Pallet	31 pieces
Per Container (40' HQ)	20 pallets or 620 pieces

ENGINEERING DRAWING (MM)

