

ONYX HTJ G12 BIFACIAL SERIES

700/705/710/715/720/725/730/735



HJT Technology

Combining gettering process and $\mu\text{c-Si}$ technology to ensure higher cell efficiency and higher module power



Up to 95% Bifaciality

Natural symmetrical bifacial structure bringing more energy yield from the backside.



Sealing with PIB

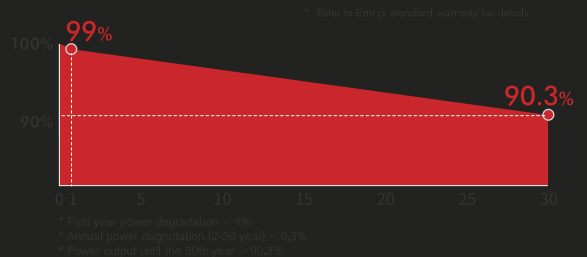
Integrated coating frames ensuring modules passing the IEC salt-mist test level 8



Suitable for Utility project

Lower BOS cost, lower LCOE

LINEAR PERFORMANCE WARRANTY



30 years
Product Workmanship
Warranty

30 years
Output Power
Warranty

- IEC61215(2016), IEC61730(2016)
- ISO9001:2015: Quality Management System
- ISO45001:2018 Occupational health and safety management systems

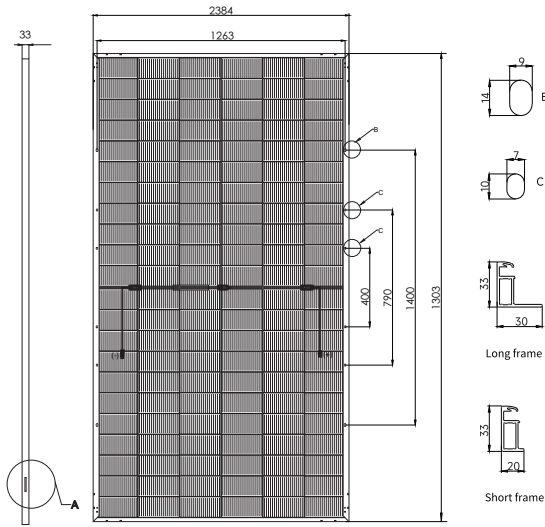


ES-210-H132 700-735W

132-Half-Cell Bifacial HJT Module

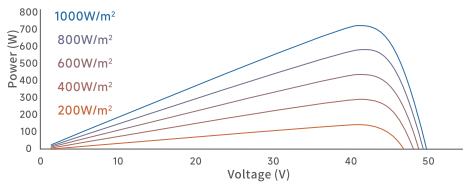
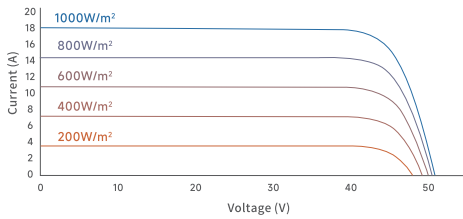
Engineering Drawings

Unit: mm



I-V Curve

(ES715M66-HJT)



Temperature Characteristics

Temperature Coefficient of Pmax	-0.24%/°C
Temperature Coefficient of Voc	-0.22%/°C
Temperature Coefficient of Isc	+0.04%/°C

Operating Conditions

Nominal Operating Cell Temp.	44±2°C
Operating Temperature	-40~+85°C
Maximum System Voltage	DC1500V (IEC)
Maximum Series Fuse Rating	35A
Tolerance of Pmax	0~+3%
Power Selection	0~+5W
Bifaciality	90±5%
Safety Class	Class II

Mechanical Characteristics

Cell Type	HJT
No. of Cells	132 (6x22)
Dimensions	2384 x 1303 x 33 mm
Weight	37.9kg
Junction Box	IP68
Cable	4mm ² ; +350/-250mm or customized; UV resistant
Connector	MC4 / MC4-Evo2A / PV-H4 / Z4S-abcd / ST4
Frame	Anodized aluminum alloy frame
Max Static Load (front side/rear side)	5400Pa / 2400Pa
Glass	Dual glass, 2.0mm

Electrical Characteristics

STC

ES-210-H132	ES700	ES705	ES710	ES715	ES720	ES725	ES730	ES735
Maximum Power (Pmax/W)	700	705	710	715	720	725	730	735
Module Efficiency (%)	22.5	22.7	22.9	23.0	23.2	23.3	23.5	23.7
Maximum Power Voltage (Vmp/V)	41.78	41.87	41.96	42.05	42.14	42.23	42.32	42.41
Maximum Power Current (Imp/A)	16.76	16.84	16.93	17.02	17.10	17.18	17.26	17.34
Open Circuit Voltage (Voc/V)	49.77	49.87	49.97	50.07	50.17	50.27	50.37	50.47
Short Circuit Current (Isc/A)	17.81	17.90	17.99	18.08	18.17	18.26	18.35	18.44

STC: AM1.5, 1000W/m², 25°C.

BSTC

Maximum Power (Pmax/W)	785	790	796	801	807	813	818	824
Maximum Power Voltage (Vmp/V)	41.92	42.02	42.11	42.20	42.29	42.38	42.47	42.56
Maximum Power Current (Imp/A)	18.73	18.82	18.91	19.00	19.10	19.19	19.28	19.37
Open Circuit Voltage (Voc/V)	49.94	50.04	50.14	50.24	50.34	50.44	50.54	50.65
Short Circuit Current (Isc/A)	19.97	20.07	20.18	20.28	20.38	20.48	20.58	20.68

BSTC: AM1.5, 1000W/m², 135W/m², 25°C.

NOCT

Maximum Power (Pmax/W)	534	538	542	545	549	553	557	561
Maximum Power Voltage (Vmp/V)	39.90	40.00	40.07	40.14	40.23	40.32	40.41	40.50
Maximum Power Current (Imp/A)	13.39	13.46	13.53	13.60	13.67	13.73	13.79	13.86
Open Circuit Voltage (Voc/V)	47.50	47.60	47.69	47.79	47.88	47.98	48.08	48.17
Short Circuit Current (Isc/A)	14.23	14.31	14.38	14.45	14.52	14.59	14.67	14.74

NOCT: AM1.5, 800W/m², 20°C, 1m/s.

Packaging

	40HQ
Modules Per Pallet	33
Pallets Per Container	18
Modules Per Container	594