

470-490W

N-Type Monofacial



Excellent temperature coefficient (Pmax): $-0.29/^\circ\text{C}$



Excellent low-light performance: extended power generation up to 1H or so in the morning and evening



Has lower LID/LeTID attenuation



Excellent mechanical load resistance, 2400Pa wind load, 5400Pa snow load

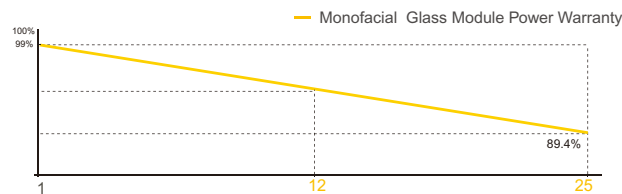


Guarantee



Warranty

IEC61215:2021/IEC61730:2023
 IEC61701/IEC62716/IEC60068/IEC62804
 ISO9001:2015(Quality management systems)
 ISO14001:2015(Environmental management systems)
 ISO45001:2018(Occupational health and safety)
 ISO14067:2018/PAS2050:2011



SPECIFICATION (STC) Irradiance at 1000 W/m², Cell Temp 25°C, Air Mass

MODEL TYPE	ODA470-30V-MH	ODA475-30V-MH	ODA480-30V-MH	ODA485-30V-MH	ODA490-30V-MH
Rated Peak Power-Pmax(Wp)	470.00	475.00	480.00	485.00	490.00
Maximum Power Voltage-Vmp(V)	35.05	35.21	35.37	35.53	35.70
Maximum Power Current-Imp(A)	13.41	13.49	13.57	13.65	13.73
Open Circuit Voltage-Voc(V)	42.38±3%	42.54±3%	42.70±3%	42.86±3%	43.03±3%
Short Circuit Current-Isc(A)	14.15±3%	14.23±3%	14.31±3%	14.39±3%	14.47±3%
Module Efficiency(%)	21.78	22.01	22.24	22.47	22.70

ELECTRICAL DATA(NMOT) Irradiance at 800 W/m², Ambient Temp 20°C, Wind Speed 1 m/s.

Rated Peak Power-Pmax(Wp)	353.00	357.00	361.00	365.00	369.00
Maximum Power Voltage-Vmp(V)	32.94	33.10	33.26	33.42	33.58
Maximum Power Current-Imp(A)	10.73	10.79	10.85	10.91	10.99
Open Circuit Voltage-Voc(V)	40.25±3%	40.41±3%	40.57±3%	40.73±3%	40.89±3%
Short Circuit Current-Isc(A)	11.42±3%	11.49±3%	11.56±3%	11.63±3%	11.70±3%

MECHANICAL CHARACTERISTICS

Cell Type (mm)	182*91 N-Type Mono
No. Of Cells	120(12*10)
Module Dimensions(mm)	1903*1134*30
Weight	23.80kg
Monofacial Glass Front Glass(mm)	3.2mm AR Coating Tempered Glass
Frame	Anodized Aluminium Alloy(Silver)
Junction Box	IP68,1500VDC, 3 Schottky Bypass Diodes
Cables	4.0mm ² , Positive(+)350mm, Negative(-)350mm ,Or Customized Length
Connector	IP68
Snow Load/Wind Load	5400Pa/2400Pa
Class Of Safety Protection	Class II
IEC Component Fire Rating	Class C

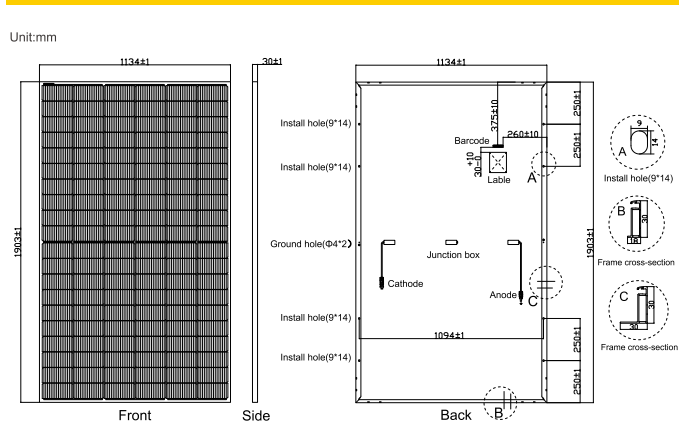
OPERATING PARAMETERS

Maximum System Voltage	1500V
Operational Temp	-40~+85 °C
Max Series Fuse Rating	25A
Nominal Module Operating Temp (NMOT)	45±2°C

TEMP COEFFICIENT

Temp Coefficient Of Pmax	-0.300%/°C
Temp Coefficient Of Voc	-0.260%/°C
Temp Coefficient Of Isc	+0.047%/°C

ASSEMBLY DRAWING



PACKING STANDARD 40ft (HQ)

Number Of Modules Per Pallet	37
Number Of Pallets Per Container	24
Number Of Modules Per Container	888

IV CURVE (490W)

