

# OLV-72N-DEGH

## 565~590W

Excellent technical advantages and system design scheme to achieve high reliability, power generation effective gain and EPC cost reduction. Products can match different installation conditions, taking into account high adaptability and high compatibility. With mature support and inverter scheme, customized design for industrial and commercial and centralized ground power stations.



Bifacial technology enables additional energy harvesting from rear side (up to 30%)



30-year lifespan delivers 10-30% more power compared with conventional P-type modules



The natural lack of LID in the N-type solar cell can increase power generation



Excellent low irradiance performance



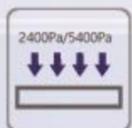
Better light trapping and current collection to improve module power output and reliability



Industry-leading, lowest thermal coefficient



Optimized electrical design and lower operating current for reduced hot spot loss and better temperature



Certified to withstand 2400 Pa of wind load and 5400 Pa of snow load



100% triple EL test, which greatly reduces the hidden cracks rate

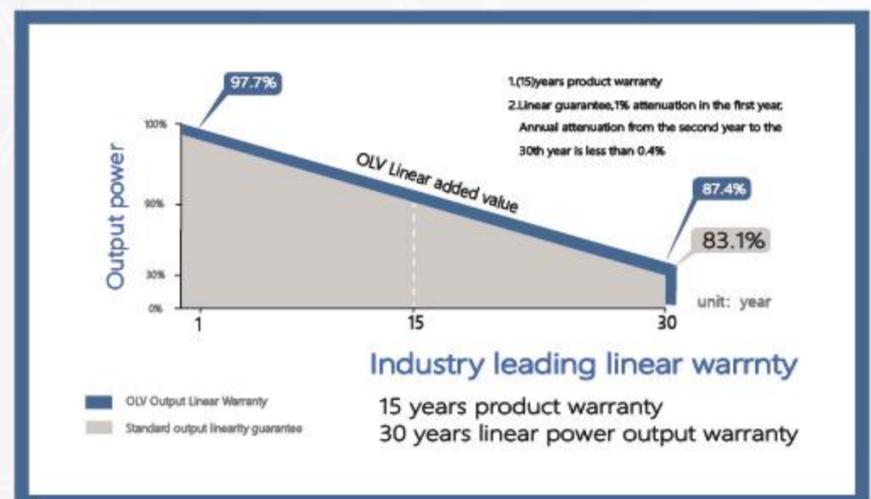
# N-TYPE



Guarantee on product material and workmanship



Linear power output warranty



## CERTIFICATION



Outstanding reliability proven by PVEL for stringent environment condition: Sand, Acid, Salt, Hailstones Anti-PID

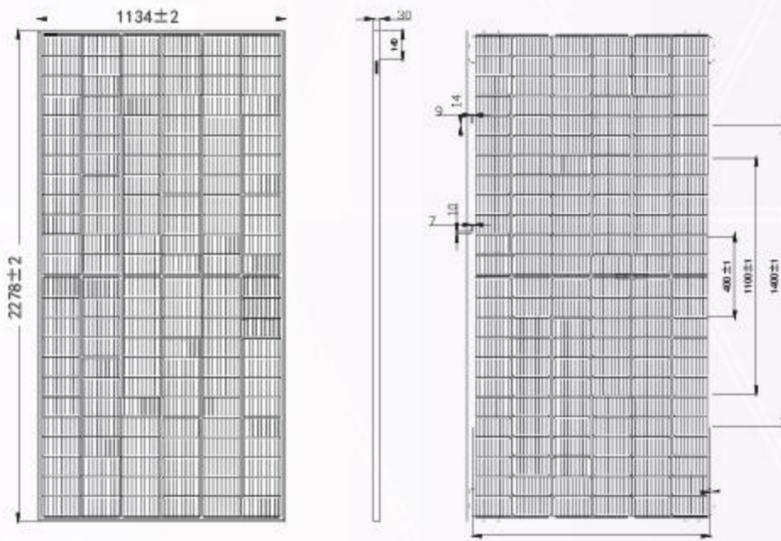
# OLV-72N-DEGH

N-type Half-Cut Cell | Bifacial Module | Double Glass



PV-Manufacturer  
**OLIVE SOLAR**

## Engineering Drawings



## Mechanical characteristics

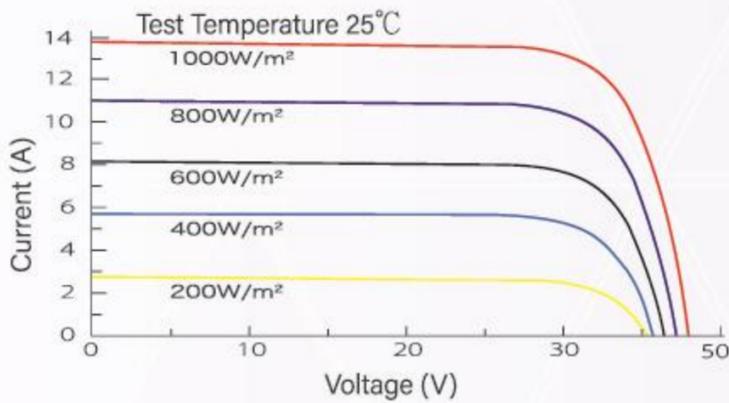
Cell Type	Monocrystalline 182*91mm,
No.of cells	144(6x24)pieces in series and paralle
Dimension	1134*2278*30mm
Weight	32.5Kg
Glass	Double sided glass,2.0 mm tempered glass
Frame	Anodized aluminum alloy
Junction Box	IP68 rated,with 3 bypass diode
Output Cables	4mm <sup>2</sup> (EU)/12AWG(US),300mm Cable length

## Packaging Configuration

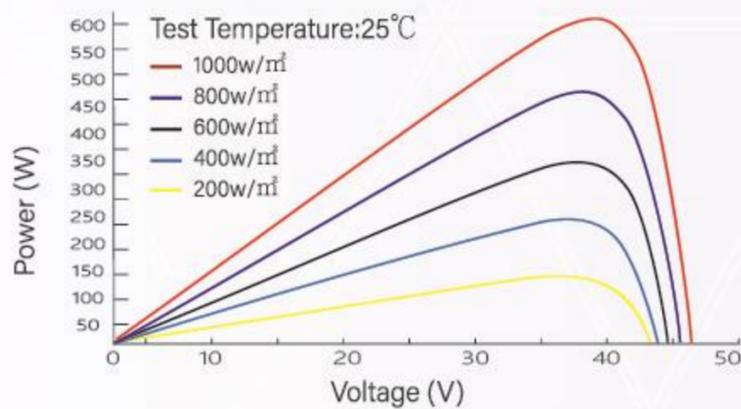
Packaging Configuration	36pcs/pallet	(Two pallets=One stack)
		72pcs/stack
		720pcs/40'HQ Container

## I-V Curve

### I -V CURVES OF PV MODULE



### P - V CURVES OF PV MODULE



## Electrical Performance (STC)

Model Number	565	570	575	580	585	590
Maximum Power (Pmax/W)	565	570	575	580	585	590
Open Circuit Voltage (Voc/V)	50.58	50.77	50.96	51.15	51.34	51.53
Short Circuit Current (Isc/A)	14.26	14.33	14.40	14.47	14.54	14.61
Voltage at Maximum Power (Vmp/V)	42.34	42.49	42.64	42.79	42.94	43.09
Current at Maximum Power (Imp/A)	13.35	13.42	13.49	13.56	13.63	13.70
Module Efficiency(%)	21.9%	22.1%	22.3%	22.5%	22.7%	22.9%

## Electrical Performance (NOTC)

Model Number	565	570	575	580	585	590
Maximum Power (Pmax/W)	442.1	446.5	451.0	455.5	460.1	464.7
Open Circuit Voltage (Voc/V)	47.38	47.57	47.76	47.95	48.14	48.33
Short Circuit Current (Isc/A)	12.09	12.16	12.23	12.30	12.37	12.44
Voltage at Maximum Power (Vmp/V)	39.24	39.39	39.54	39.69	39.84	39.99
Current at Maximum Power (Imp/A)	11.27	11.34	11.41	11.48	11.55	11.62

## Electrical characteristics With different rear side power gain(referen to 575W front)

Pmax gain(%)	5%	10%	15%	20%	25%
Maximum Power (Pmax/W)	582.8	610.6	638.4	666.1	693.9
Open Circuit Voltage (Voc/V)	50.19	50.19	50.19	50.19	50.19
Short Circuit Current (Isc/A)	14.82	15.53	16.24	16.94	17.65
Voltage at Maximum Power (Vmp/V)	42.03	42.03	42.03	42.03	42.03
Current at Maximum Power (Imp/A)	13.87	14.53	15.19	15.85	16.51

## Temperature Ratings(STC)

Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	+0.05%/°C

## Mechanical Loading

Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Tes	25mm Hailstone at the speed of 23m/s

## Working parameters

Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	30A
Power Output Tolerance	0~+4.99W
Voc and Isc Tolerance	±3%
Nominal Operating Cell Temperature(NOTC)	45±2°C
Safety Class	Class II
Fire Rating	Class A
Bifaciality	80±5%

Note:the electrical performance parameters in the product catalog do not refer to a single component,nor are they the contents promised in the contract.Electrical parameters are only used for comparison between different component types.Olive does not guarantee their accuracy. Due to continuous updating,R &D and product improvement,Olive Green reserves the right to adjust the information in this technical parameter document at any time without prior notice.