

OLV-(430~455)-60M-HEAH

1133*1890mm

Silver border / White back panel

- 12 years power output not less than 91.4%
- 25 years power output not less than 84%
- 12 years product material process warranty
- 48 hours quick response service
- Low light conditions (cloudy and early morning evening)
- Excellent performance

Module features

Efficient perc battery & Battery cutting technology

High efficiency perc battery with multi main gate can effectively reduce the cost of single watt system with higher output power; The product has excellent performance in shielding loss and temperature coefficient,

Combined with battery cutting technology, the risk of hot spot of high-power components is effectively reduced, which shows better performance in system application Power generation performance and reliability.

Load capacity

Bearing snow load of up to 5400pa and wind load of 2400pa and Hail test with diameter of 25 mm and impact speed of 23 m / S

2 El checks

2 EL inspections per cell/module for defect-free consistency

Low light performance

Excellent performance in low light environment through the use of excellent glass and battery chip surface velvet Technology

Severe environmental adaptability

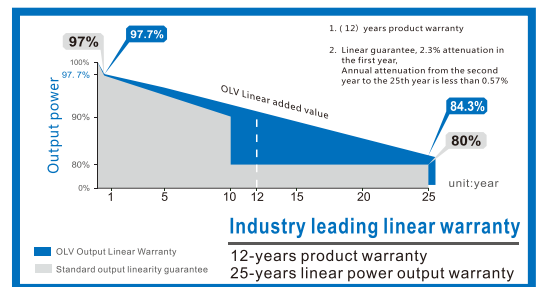
High salt and ammonia resistance test certified by TUV SUD

Power measurement guarantee

0 ~ + 4.99w guaranteed positive tolerance

12 years product warranty

25 years linear power output warranty



IEC 61215, IEC 61730 IEC TS 62941 (Quality System)



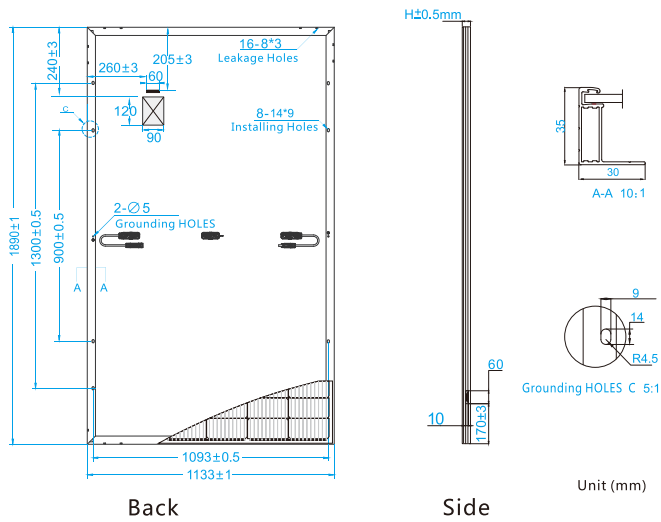
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Engineering Drawings



Mechanical characteristics

Cell Type	Monocrystalline 182*182mm ,
No. of cells	120 (6 x 20) pieces in series and parallel
Dimension	1133*1890*35mm
Weight	25.5Kg
Glass	High transparency, low iron, AR coated tempered glass 3.2 mm
Frame	Anodized aluminum alloy
Junction Box	IP68 rated, with 3 bypass diode
Output Cables	4 mm ² (EU)/12 AWG (US), 300mm Cable length

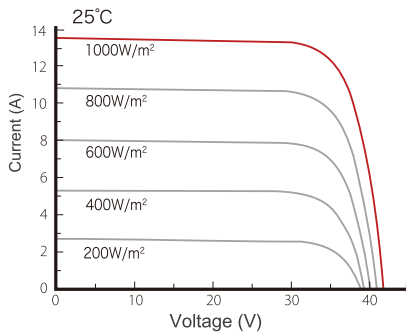
Note: frame / back panel color & cable length can be customized as required

Packaging Configuration

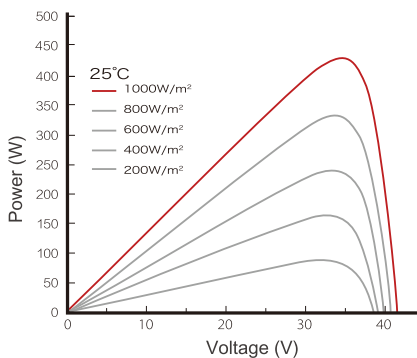
Packaging Configuration	31pcs/pallet	(Two pallets=One stack)
		62pcs/stack
		744pcs/40'HQ Container

I-V Curve

I-V Curves at Different Irradiances
OLV-445-60M-DEAH



Power curve under different irradiance
OLV-445-60M-DEAH



Electrical Performance (STC)

Model Number	430	435	440	445	450	455
Maximum Power (Pmax/W)	430	435	440	445	450	455
Open Circuit Voltage (Voc/V)	40.88	41.05	41.22	41.39	41.56	41.73
Short Circuit Current (Isc/A)	13.53	13.60	13.67	13.74	13.81	13.88
Voltage at Maximum Power (Vmp/V)	33.63	33.80	33.98	34.16	34.33	34.50
Current at Maximum Power (Imp/A)	12.79	12.87	12.95	13.03	13.11	13.19
Module Efficiency(%)	20.1	20.3	20.5	20.8	21.0	21.3

Electrical Performance (NOTC)

Model Number	430	435	440	445	450	455
Maximum Power (Pmax/W)	332.6	337.0	341.4	345.9	350.3	354.7
Open Circuit Voltage (Voc/V)	38.18	38.35	38.52	38.69	38.86	39.03
Short Circuit Current (Isc/A)	11.36	11.43	11.50	11.57	11.64	11.71
Voltage at Maximum Power (Vmp/V)	31.03	31.20	31.38	31.56	31.73	31.90
Current at Maximum Power (Imp/A)	10.72	10.80	10.88	10.96	11.04	11.12

Working parameters

Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	20A
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

Temperature Ratings(STC)

Temperature Coefficient of Pmax	-0.35%/°C
Temperature Coefficient of Voc	-0.28%/°C
Temperature Coefficient of Isc	+0.044%/°C

Mechanical Loading

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

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. Oliver does not guarantee their accuracy.

Due to continuous updating, R & D and product improvement, Oliver reserves the right to adjust the information in this technical parameter document at any time without prior notice.

STC(Standard test environment): AM1.5, Irradiance 1000W/m², 25°C)

NOCT(Nominal operating temperature of cell):AM1.5, Irradiance 800W/m², Ambient 20°C, Wind 1m/s