



嘉兴奥力弗光伏科技有限公司
JIAXING OLIVE PHOTOVOLTAIC TECHNOLOGY CO.,LTD



OLV-72M-HC9H

1038*2094mm

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

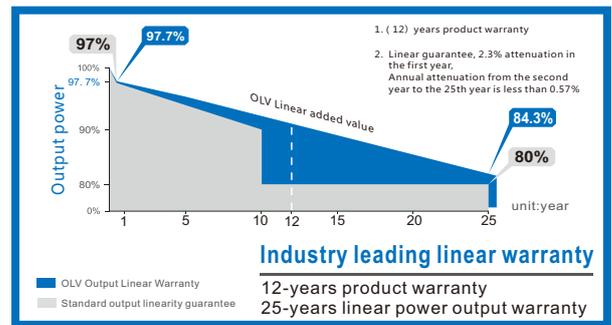
25 years linear power output warranty



Chuangye Road No. 188, New material industrial Area.

Tongyuan, Haiyan, Jiaxing, Zhejiang Province, China

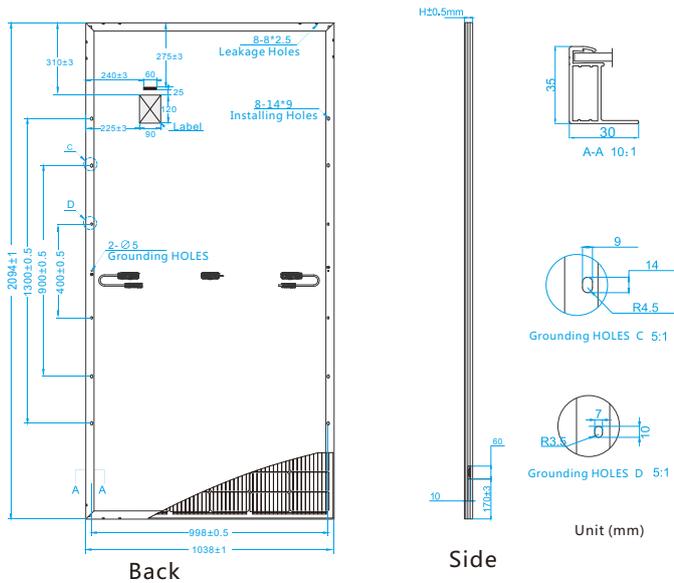
www. olivesolar.net oliver@olivesolar.net



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



Engineering Drawings



Mechanical characteristics

Cell Type	Monocrystalline 166*166mm ,
No. of cells	144 (6 x 24) pieces in series and parallel
Dimension	1038*2094*35mm
Weight	23.5Kg
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

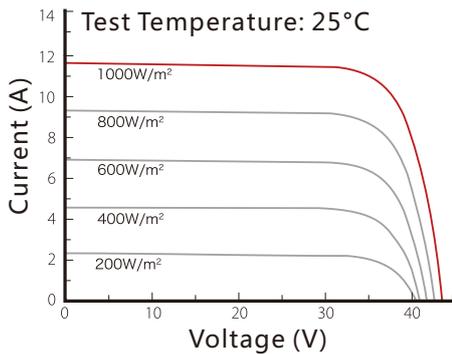
Note: frame / back panel color & cable length can be customized as required

Packaging Configuration

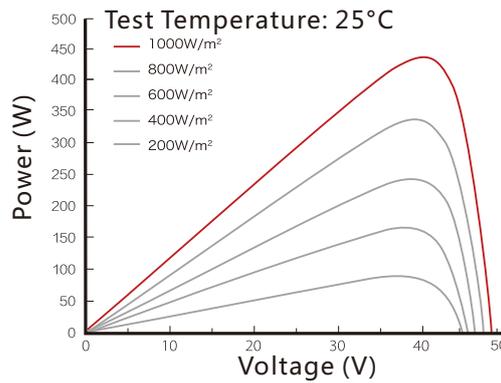
Packaging Configuration	31pcs/pallet	(Two pallets=One stack)
		62pcs/stack
		682pcs/40'HQ Container

Electrical Performance & Temperature Dependence

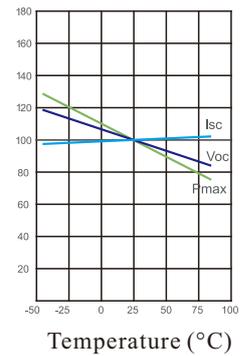
I-V Curves at Different Irradiances (440W)
OLV-440-72M-HC9H



Power curve under different irradiance (440W)
OLV-440-72M-HC9H



Irradiance: AM 1.5, 1,000W/m² (440W)



SPECIFICATIONS

Module Type	OLV-430-72M-HC9H		OLV-435-72M-HC9H		OLV-440-72M-HC9H		OLV-445-72M-HC9H		OLV-450-72M-HC9H		OLV-455-72M-HC9H	
	STC	NOCT										
Maximum Power (P _{max})	430	319.7	435	324.2	440	328.6	445	333.0	450	337.4	455	341.8
Open Circuit Voltage (V _{oc})	48.42	45.22	48.57	45.37	48.72	45.52	48.87	45.67	49.02	45.82	49.17	45.97
Short Circuit Current (I _{sc})	11.37	9.20	11.52	9.35	11.67	9.50	11.82	9.65	11.97	9.80	12.12	9.95
Maximum Power Voltage (V _{mp})	40.15	37.05	40.32	37.22	40.48	37.83	40.64	37.54	40.80	37.70	40.96	37.85
Maximum Power Current (I _{mp})	10.71	8.63	10.79	8.71	10.87	8.79	10.95	8.87	11.03	8.95	11.11	9.03
Module Efficiency STC (%)	19.8%		20.0%		20.2%		20.5%		20.7%		20.9%	
Operating Temperature(°C)	-40°C ~ +85°C											
Maximum system voltage	1000/1500V DC											
Maximum series fuse rating	20A											
Power tolerance	0 ~ +4.99W											
Temperature coefficients of P _{max}	-0.35%/°C											
Temperature coefficients of V _{oc}	-0.28%/°C											
Temperature coefficients of I _{sc}	0.044%/°C											
Nominal operating cell temperature (NOCT)	45±2°C											

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 types of components.

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