

OLV-54N-DEGH

425~445W

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



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

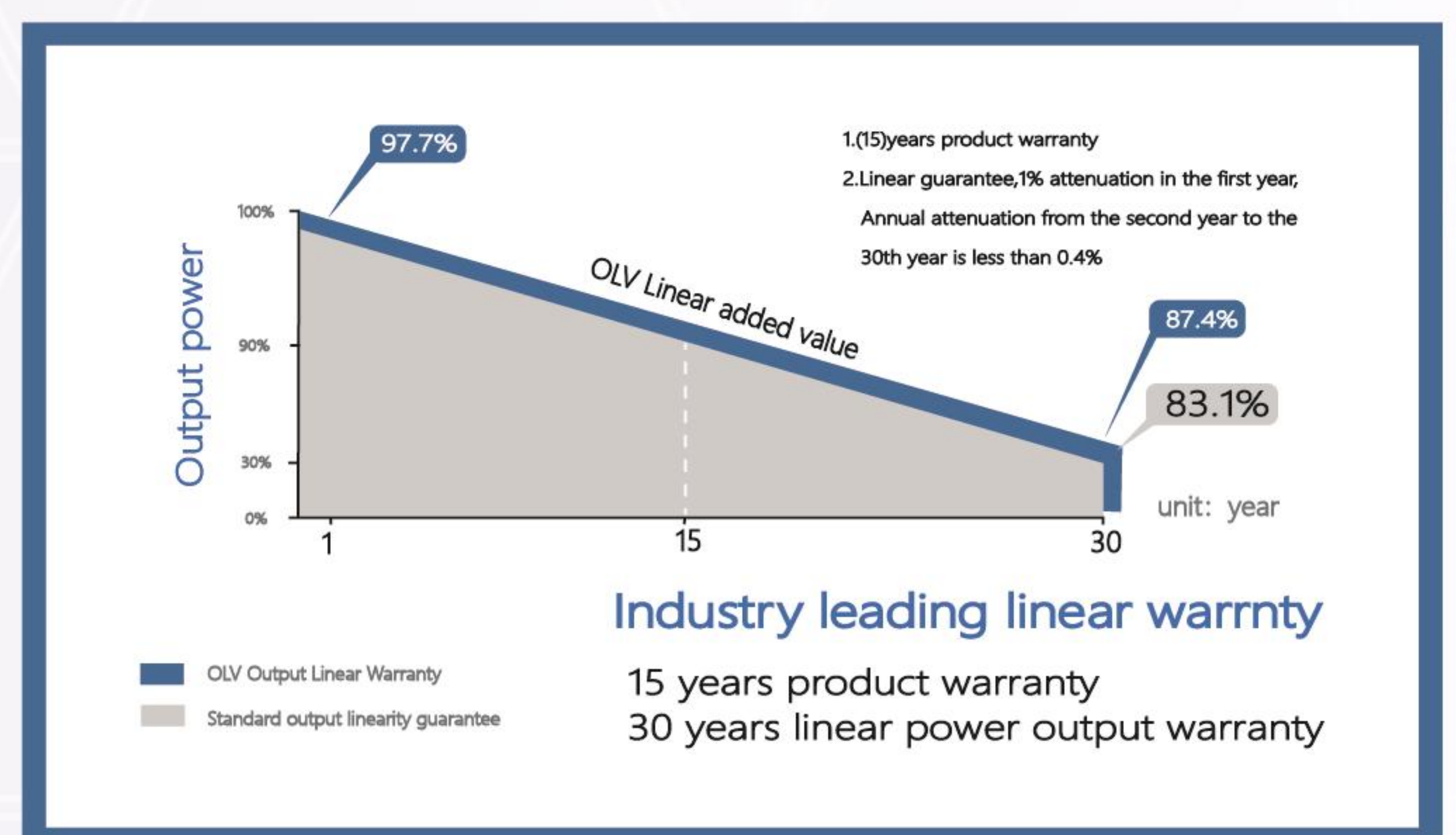
N-TYPE



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-54N-DEGH
N-type Half-Cut Cell | Full Black Module



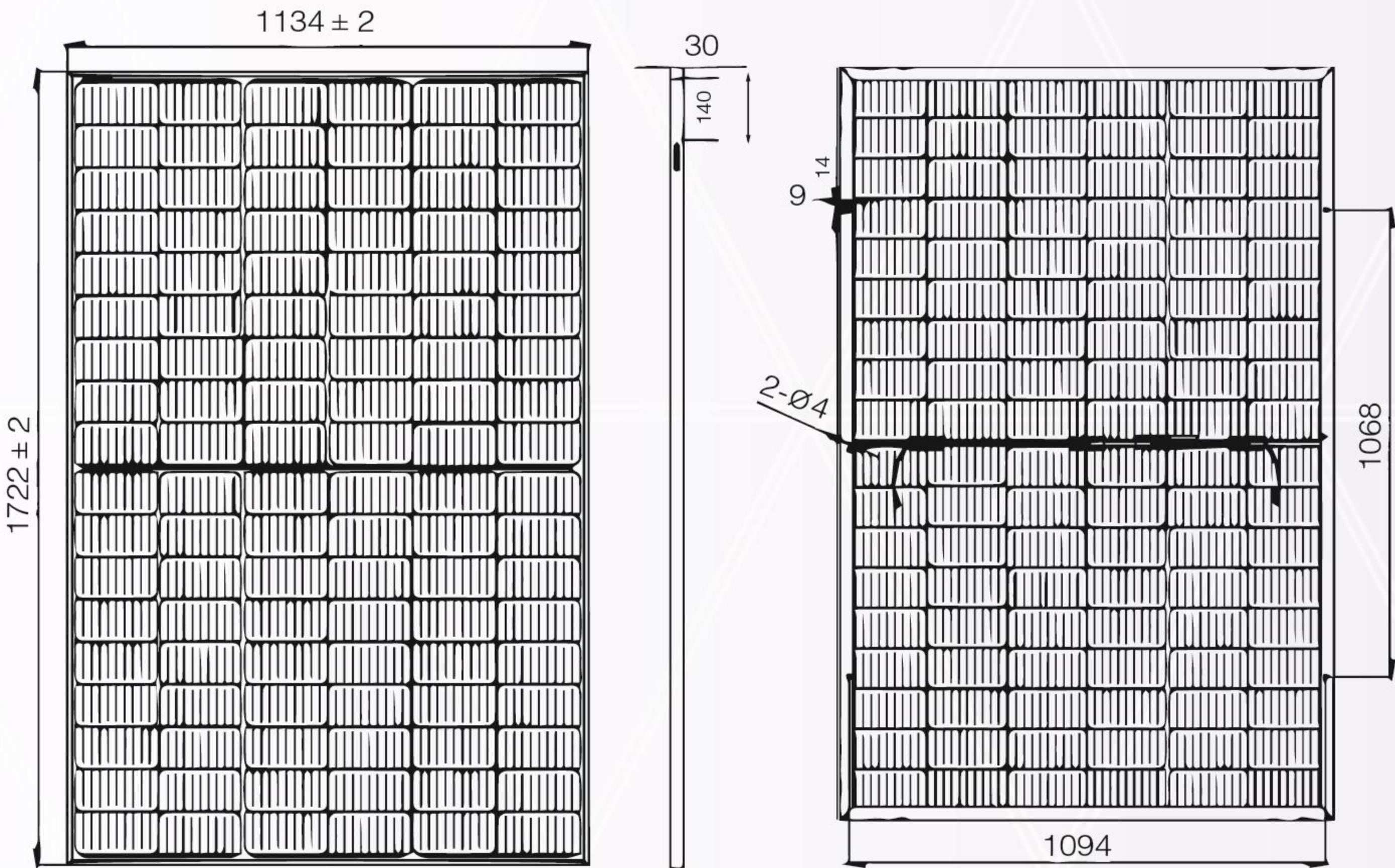
ELECTRICAL PARAMETERS

* Measurement tolerance: Pmax:±3%, Voc:±3%, Isc:±5%.

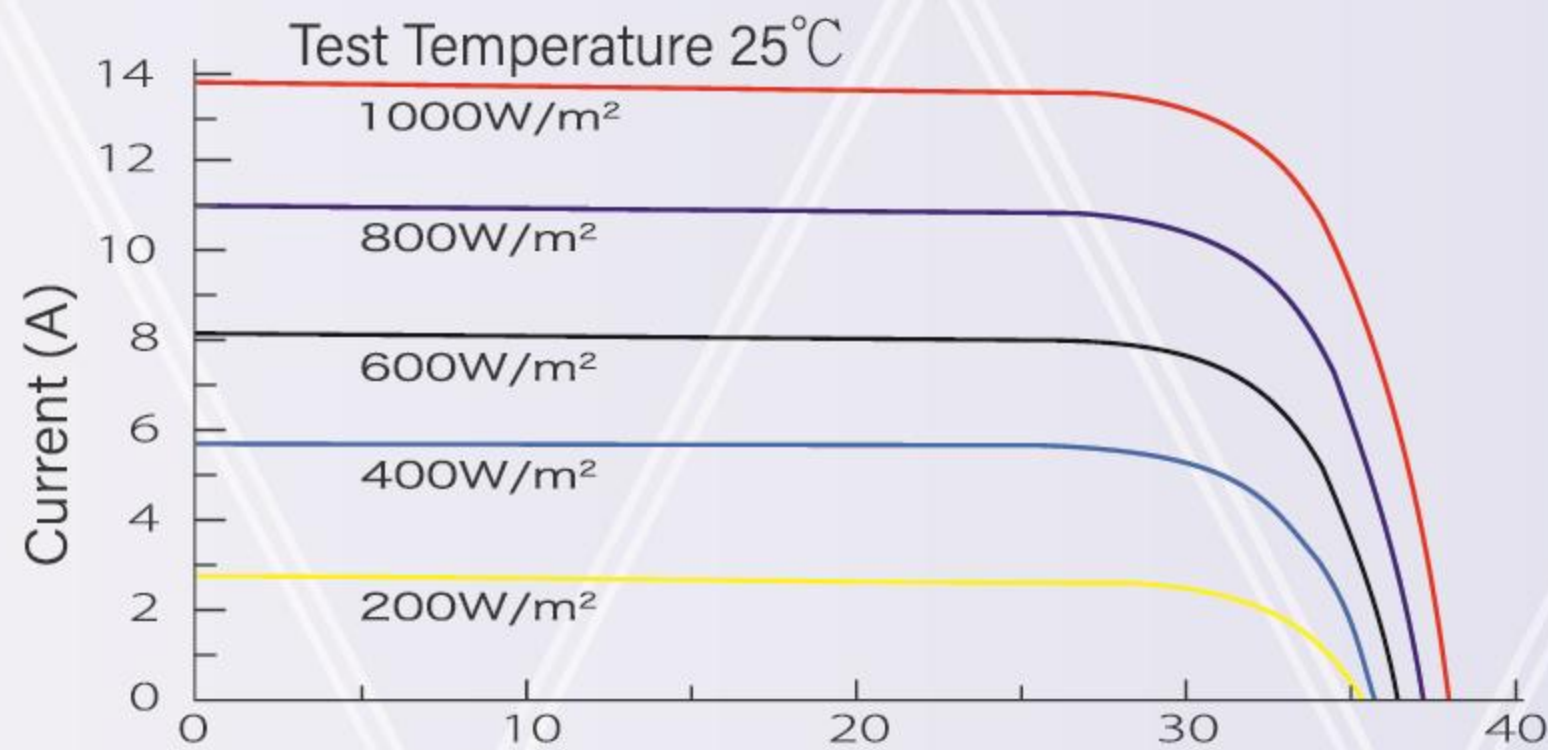
Module Type	OLV-410-54N-DEGH		OLV-415-54N-DEGH		OLV-420-54N-DEGH		OLV-425-54N-DEGH		OLV-430-54N-DEGH	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power - Pmax (W)	425	323.9	430	327.8	435	331.8	440	317	445	339.8
Maximum Power Voltage - Vmpp (V)	32.06	28.14	32.25	28.31	32.43	28.48	32.61	30.16	32.79	28.82
Maximum Power Current - Impp (A)	13.26	11.51	13.34	11.58	13.42	11.65	13.50	10.50	13.58	11.79
Open Circuit Voltage - Voc (V)	38.13	33.39	38.31	33.54	38.49	33.69	38.67	35.63	38.85	33.99
Short Circuit Current - Isc (A)	14.09	12.26	14.16	12.32	14.23	12.38	14.30	11.30	14.37	12.50
Module Efficiency (%)	21.8		22.0		22.3		22.5		22.8	

STC: irradiance 1,000 W/m2; Spectra at AM 1.5; module temperature 25°C. Power output tolerance: 0~+5W. Measuring tolerance of power: ±3%
NMOT: irradiance 800 W/m2; Spectra at AM 1.5; Cell temperature 45°C; Ambient temperature 20°C. Wind speed 1m/s

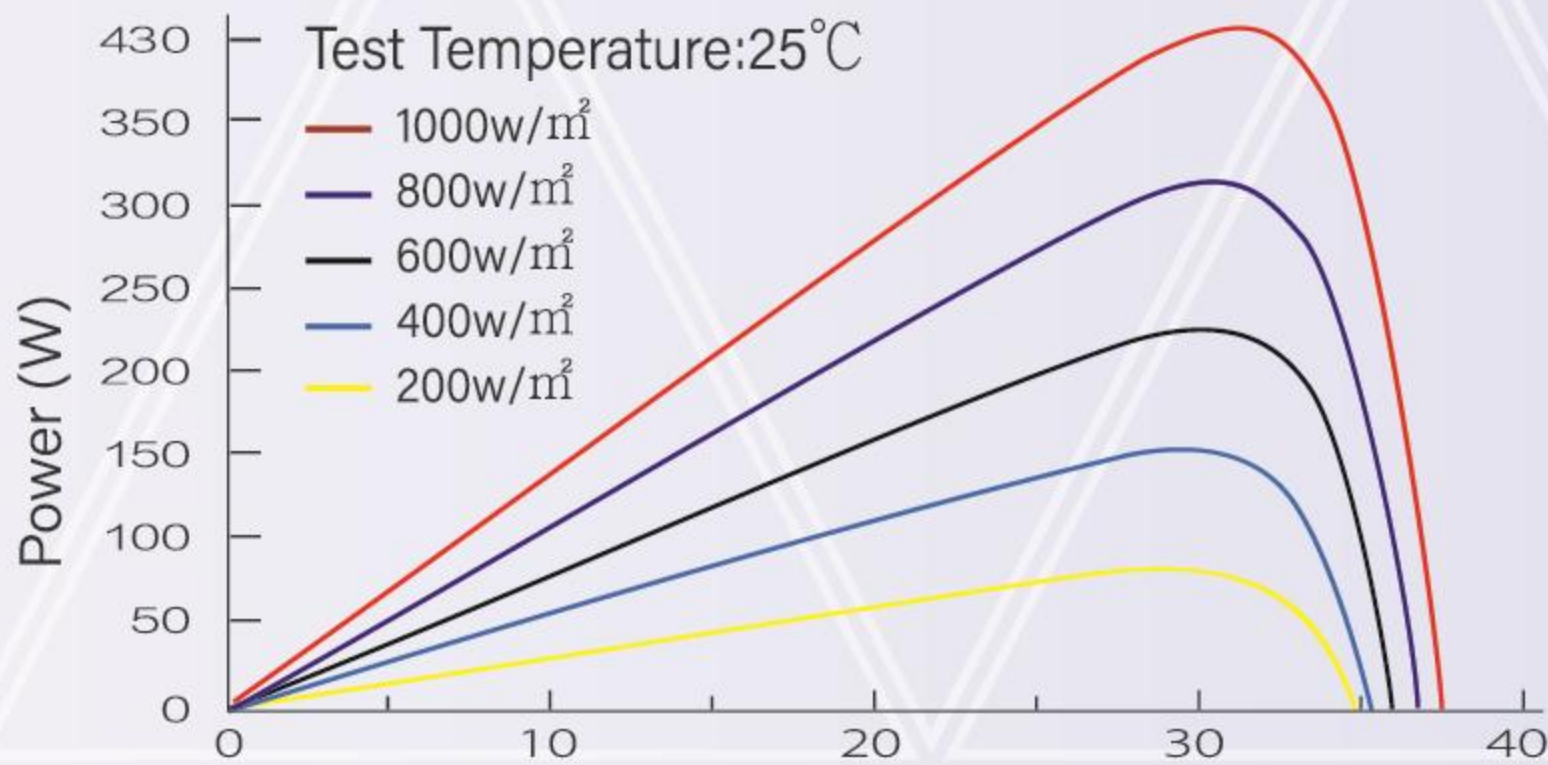
DIMENSIONS OF PV MODULE



I - V CURVES OF PV MODULE



P - V CURVES OF PV MODULE



MECHANICAL DATA

Solar Cells (mm)	182 x 91 N-type Monocrystalline
Cell Orientation	108 Cells (6 x 18)
Module Dimensions (L*W*H)	1722 x 1134 x 30mm
Weight (Kg)	24.2kg
Front Glass	2.0mm Anti-Reflection Coating
Back Glass	2.0mm Heat Strengthened Glass
Frame	Black anodized aluminum alloy
J-Box	IP68, 3 bypass diodes
Cables	Length 300mm, 1x4.0mm²
Connector	MC4 and MC4 Compatible

TEMPERATURE RATINGS

NMOT	45°C (±2°C)
Temperature Coefficient of Pmax	-0.29 %/°C
Temperature Coefficient of Voc	-0.25 %/°C
Temperature Coefficient of Isc	+0.05 %/°C

MAXIMUN RATING

Operational Temperature (°C)	-40°C to +85°C
Maximum System Voltage (VDC)	1500
Max Series Fuse Rating (A)	25
Mechanical Load Front (Pa)	5,400
Mechanical Load Back (Pa)	2,400

PACKING CONFIGURATION

Module per box: 36 Pieces

MODULE PER CONTAINER

936 Pieces

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCTS.
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