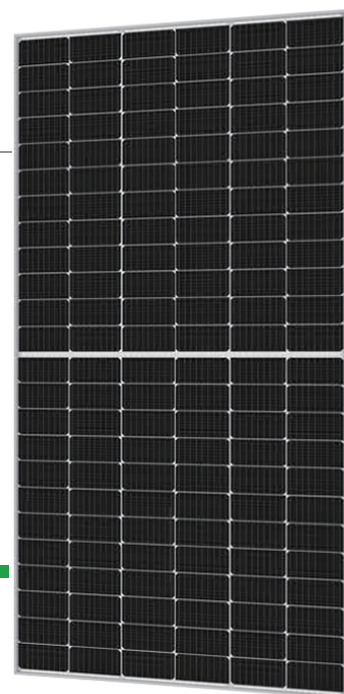


Mono

Multi

Half cell

430–450W



144 CELL

MONOCRYSTALLINE MODULE

430–450W

POWER OUTPUT RANGE

20.6%

MAXIMUM EFFICIENCY

0 to +5%

POSITIVE POWER TOLERANCE

CERTIFICATION



www.inesolar.com



Higher Output of Power

Effectively reduce the unit cost of PV solar system by watt



Optimize the temperature coefficient

Improve the performance under the condition of shadow and low temperature coefficient



Reduce the shadow loss on the power output

Effectively reduce the risk of heat spot on high efficiency PV module

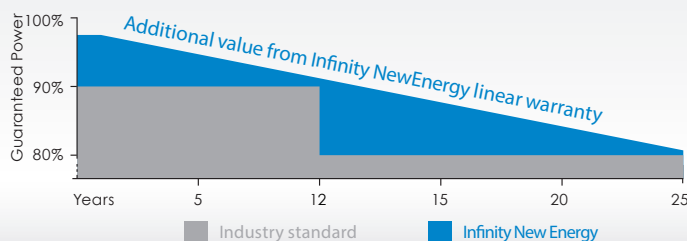


Stronger the physical property

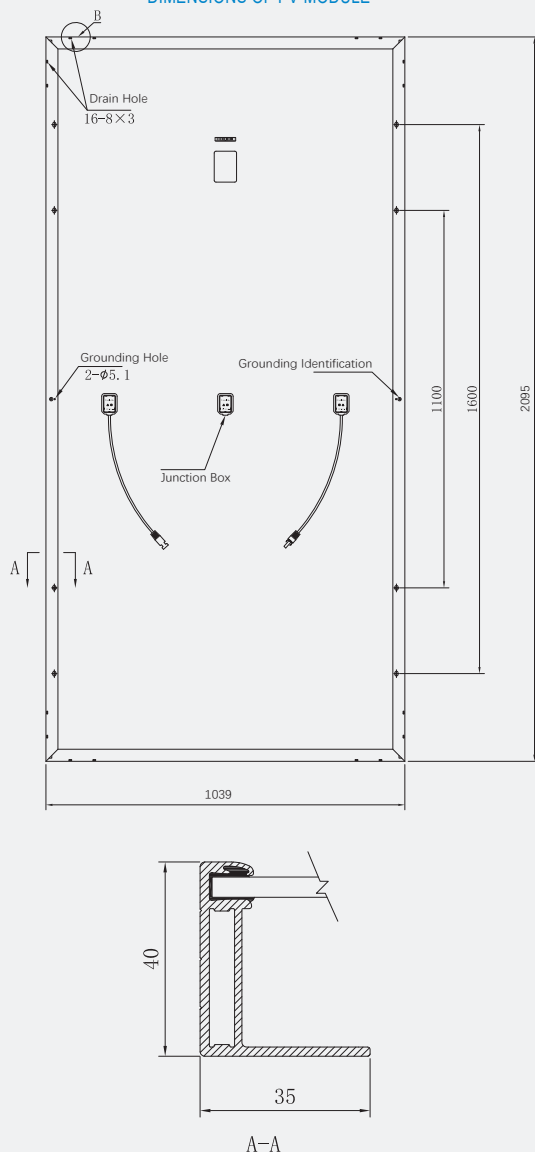
Optimize the property of power generating and reliability of the system

LINEAR PERFORMANCE WARRANTY

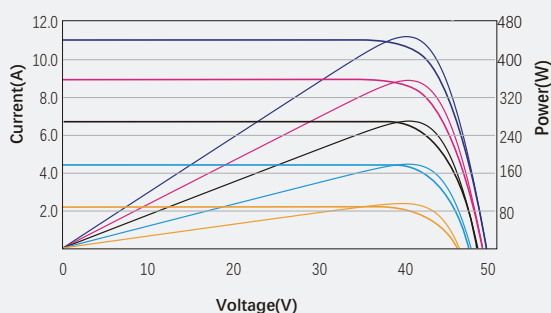
12 Year Product Warranty • 25 Year Linear Power Warranty



DIMENSIONS OF PV MODULE



Current-Voltage & Power-Voltage Curves(440W)



ELECTRICAL DATA @ STC

Peak Power Watts- P_{MAX} (Wp)	430	435	440	445	450
Power Output Tolerance- P_{MAX} (%)	0/+5	0/+5	0/+5	0/+5	0/+5
Open Circuit Voltage- V_{oc} (V)	48.8	49.0	49.2	49.4	49.6
Short Circuit Current- I_{sc} (A)	11.24	11.31	11.39	11.46	11.53
Maximum Power Voltage- V_{MPP} (V)	40.3	40.5	40.7	40.8	41.0
Maximum Power Current- I_{MPP} (A)	10.66	10.74	10.82	10.90	10.98
Module Efficiency (%)	19.7	19.9	20.1	20.4	20.6

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.
 Average efficiency reduction of 4.5% at 200 W/m² according to EN 60904-1.

ELECTRICAL DATA @ NOCT

Maximum Power- P_{MAX} (Wp)	325	329	333	336	340
Maximum Power Voltage- U_{MPP} (V)	38.0	38.2	38.4	38.5	38.7
Maximum Power Current- I_{MPP} (A)	8.54	8.61	8.68	8.73	8.80
Open Circuit Voltage- U_{oc} (V)	46.1	46.3	46.4	46.6	46.8
Short Circuit Current- I_{sc} (A)	9.05	9.11	9.17	9.23	9.28

NOCT: Irradiance at 800 W/m², Ambient Temperature 20°C, Wind Speed 1 m/s.

MECHANICAL DATA

Solar cells	Monocrystalline 166*83mm
Cell orientation	144cells (6*24)
Module dimensions	2095*1039*40mm
Weight	23.8kg
Glass	High Transparency, Anti-Reflective, A R Coated and Heat Tempered Solar Glass -3.2mm
Backsheet	White
Frame	Silver Anodized Aluminium Alloy (Black Available)
J-Box	IP 68 rated
Cables	Photovoltaic Technology cable 4.0 mm ² , Customized Available
Connector	MC4 compatible

TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	41°C (±3°C)
Temperature Coefficient of P_{MAX}	-0.36%/°C
Temperature Coefficient of V_{oc}	-0.26%/°C
Temperature Coefficient of I_{sc}	0.04%/°C

MAXIMUM RATINGS

Operational Temperature	-40 to +85°C
Maximum System Voltage	1500VDC(IEC)
Max Series Fuse Rating	20A
Mechanical Load	5400pa
Wind Load	2400pa

WARRANTY

12 year Product Workmanship Warranty
25 year Linear Performance Warranty

(Please refer to product warranty for details)