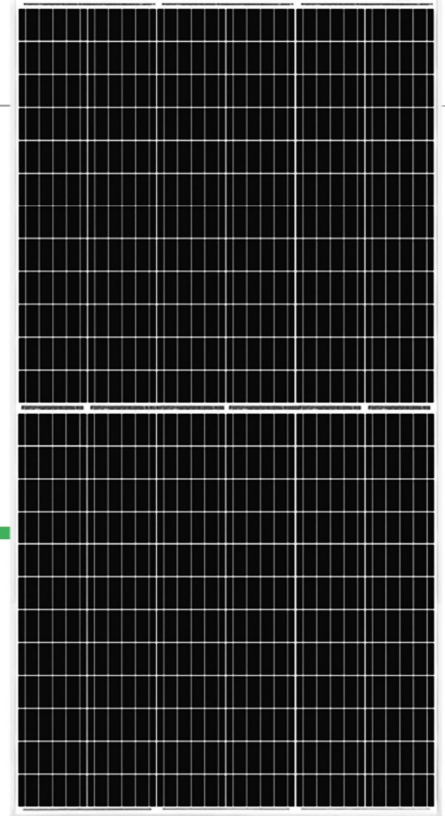


SQUARE MONO

# Half Cell

## 390W-410W



**144 CELL**  
MONOCRYSTALLINE MODULE

**390W-410W**  
POWER OUTPUT RANGE

**20.2%**  
MAXIMUM EFFICIENCY

**0 to +5W**  
POSITIVE POWER TOLERANCE

### CERTIFICATION



[www.inesolar.com](http://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

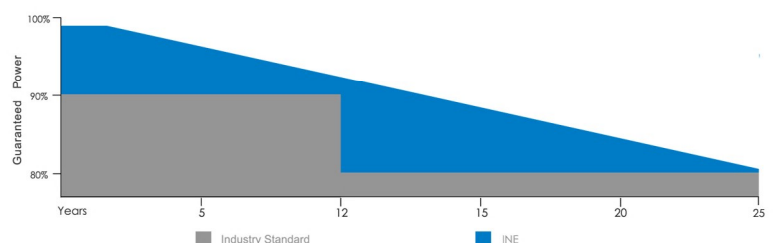


### Stronger the physical property

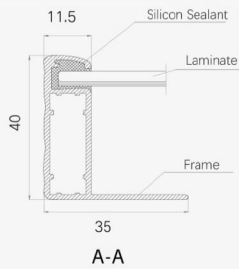
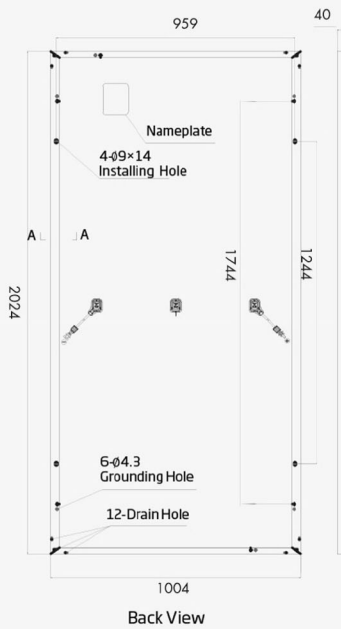
Optimize the property of power generating and reliability of the system

## LINEAR PERFORMANCE WARRANTY

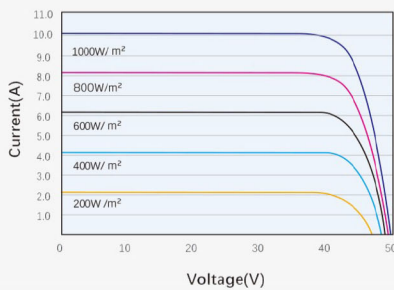
12 Year Product Warranty · 25 Year Linear Power Warranty



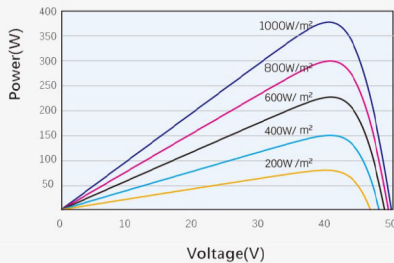
### DIMENSIONS OF PV MODULE



### I-V CURVES OF PV MODULE



### P-V CURVES OF PV MODULE



ELECTRICAL DATA @STC	INE-390M-HC	INE-395M-HC	INE-400M-HC	INE-405M-HC	INE-410M-HC
Peak Power Watts- $P_{MAX}$ (Wp)	390	395	400	405	410
Power Output Tolerance- $P_{MAX}$ (W)	0/+5	0/+5	0/+5	0/+5	0/+5
Maximum Power Voltage- $V_{MPP}$ (V)	41.10	41.40	41.70	42.00	42.30
Maximum Power Current- $I_{MPP}$	9.49	9.55	9.60	9.65	9.69
Open Circuit Voltage- $V_{OC}$ (V)	49.30	49.50	49.80	50.10	50.4
Short Circuit Current- $I_{SC}$ (A)	10.12	10.23	10.36	10.48	10.60
Module Efficiency $\eta_m$ (%)	19.2	19.4	19.7	19.9	20.2

STC: Irradiance 1000 W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.  
Average efficiency reduction of 4.5% at 200 W/m<sup>2</sup> according to EN 60904-1.

ELECTRICAL DATA @ NOCT	INE-390M-HC	INE-395M-HC	INE-400M-HC	INE-405M-HC	INE-410M-HC
Maximum Power- $P_{MAX}$ (Wp)	294	298	302	306	310
Maximum Power Voltage- $V_{MPP}$ (V)	39.10	39.30	39.60	39.80	40.00
Maximum Power Current- $I_{MPP}$ (A)	7.54	7.60	7.66	7.72	7.76
Open Circuit Voltage- $V_{OC}$ (V)	48.00	48.20	48.50	48.70	48.90
Short Circuit Current- $I_{SC}$ (A)	8.02	8.09	8.16	8.22	8.26

NOCT: Irradiance at 800 W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1 m/s.

### MECHANICAL DATA

Solar Cells	Square Mono PERC 158.75 x 158.75mm
Cell Orientation	144 cells(6 x 24)
Module Dimensions	2024 x 1004 x 40 mm
Weight	22.8 kg
Glass	High Transparency, Anti-Reflective, AR 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 4.0mm <sup>2</sup> , (+)285mm (-)140mm
Connector	MC4 Compatible

### TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of $P_{MAX}$	-0.36%/°C
Temperature Coefficient of $V_{OC}$	-0.28%/°C
Temperature Coefficient of $I_{SC}$	+0.048%/°C

### MAXIMUM RATINGS

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

### PACKGING CONFIGURATION

Modules per box: 26 pieces
Modules per 40' container: 627 pieces
Modules per 20' container: 260pieces

### WARRANTY

12 year workmanship warranty
25 year linear performance warranty
(Please refer to product warranty for details)