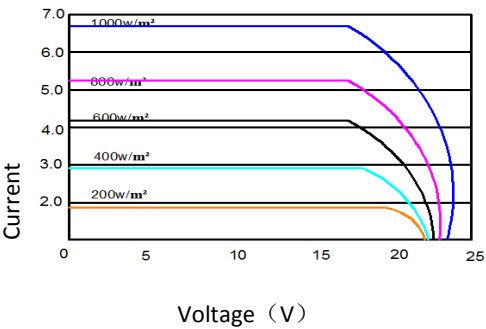
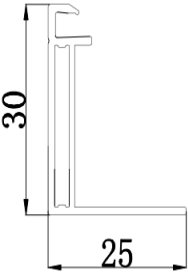
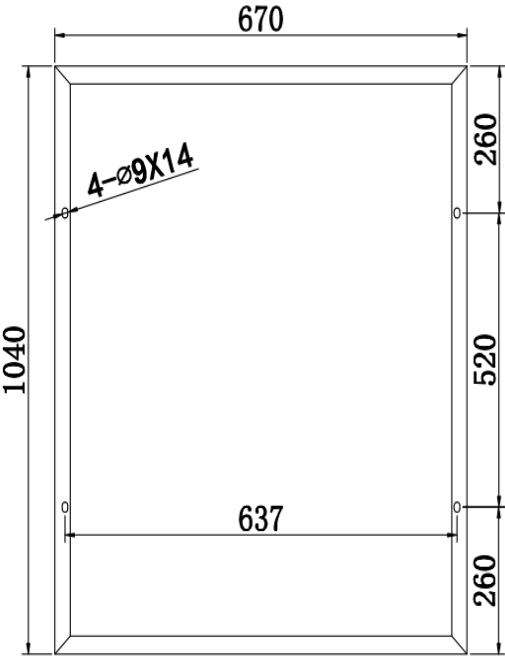


the Specification of Polycrystal Solar Modulel 90-110W 18V

IV-CURVE



photovoltaic module specification holes



ELECTRICAL DATA (STC)	NPP-90 -36	NPP-100 -36	NPP-110 -36
Peak Power Watts-PMAX (Wp)	90	100	110
Power Output Tolerance-PMAX (W)	0/+3	0/+3	0/+3
Operating Voltage-VMP(V)	17.8	18.2	18.4
Operating Current-IMP(A)	5.05	5.49	5.97
Open Circuit Voltage-VOC (V)	21.8	22.2	22.4
Short Circuit Current-ISC (A)	5.57	6.04	6.56
Module Efficiency η m (%)	15.5	17.2	18.9

STC: Air Mass AM1.5, Irradiance 1000W/m², Cell Temperature 25°C, *Measuring tolerance: $\pm$ 3%.

MECHANICAL DATA

Solar Cells	Polycrystal 156×104mm
Cell Orientation	36 cells (4 × 9)
Module Dimensions	1040 × 670 × 30mm
Weight	7kg
Glass	3.2mm (0.13 inches), High Transmission Glass
Frame	Anodized Aluminium Alloy
J-Box	IP 65 rated
Cables	General Cable 1.5mm ² ,300 mm
Connector	Not available

TEMPERATURE RATINGS

NOCT(Nominal Operating Cell Temperature)	45°C ($\pm$ 2°C)
Temperature Coefficient of PMAX	- 0.44%/°C
Temperature Coefficient of VOC	- 0.33%/°C
Temperature Coefficient of ISC	0.046%/°C

WARRANTY

10 year Product Workmanship Warranty
25 year Linear Power Warranty

MAXIMUM RATINGS

Operational Temperature	-40~+85°C
Maximum System Voltage	1000VDC(IEC) 600V DC(UL)
Max Series Fuse Rating	10A



•Excellent mechanical load resistance:Certified to withstand high wind loads(2400Pa) and snow loads(5400Pa)



•Guarantee output power, ((0~+3%))



•Outstanding performance in low-light irradiance environment



•100% EL double-inspection ensures modules are defects free



•comprehensive certificates: IEC61215, IEC61730, UL1703,TUV safety class II, CQC , CE,ISO9001-ISO1400