

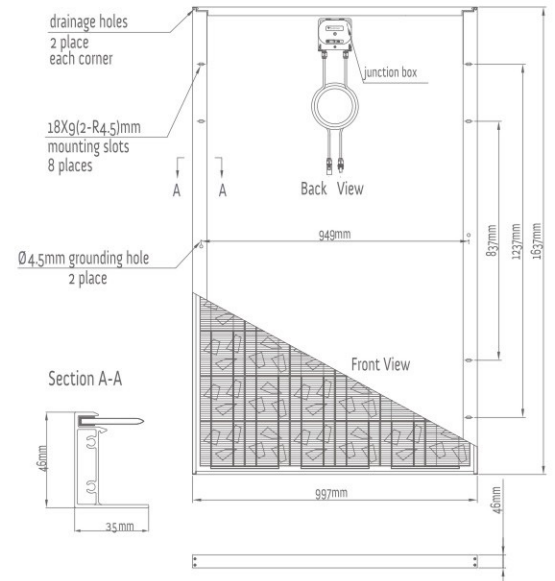
# Polycrystalline Solar Module

# 156x156mm 6x10 Cells

## ► Electrical characteristics

TUV-Model	UL-230P-60	UL-235P-60	UL-240P-60	UL-245P-60
UL-Model	UL-230P	UL-235P	UL-240P	UL-245P
Max. Power Pm (W)	230	235	240	245
Max. Power Voltage Vm (V)	30.0	30.1	30.2	30.3
Max. Power Current Im (A)	7.67	7.81	7.95	8.08
Open-Circuit Voltage Voc (V)	36.7	36.8	37.0	37.1
Short-Circuit Current Isc (A)	8.34	8.44	8.54	8.64
Cell Efficiency	15.8	16.1	16.5	16.8
Module Efficiency	14.1	14.4	14.7	15.0
Power Tolerance	0~+3%			
Max. System Voltage (V)	1000 (TUV) / 600 (UL)			
Temperature Coefficient of Isc	+0.065%/°C			
Temperature Coefficient of Voc	-0.330%/°C			
Temperature Coefficient of Pmax	-0.403%/°C			
Operating Temperature	-40°C~+85°C			
NOCT	45±2°C			
Series Fuse Rating (A)	15			

STC: irradiance: 1000 W/m<sup>2</sup>; Solar spectrum: AM 1.5; cell temperature: 25°C



## ► Mechanical characteristics

Module Dimension (mm)	1637x997x46
Cell Dimension (mm)	156x156
Array (PCS)	6x10
Weight (kg)	19

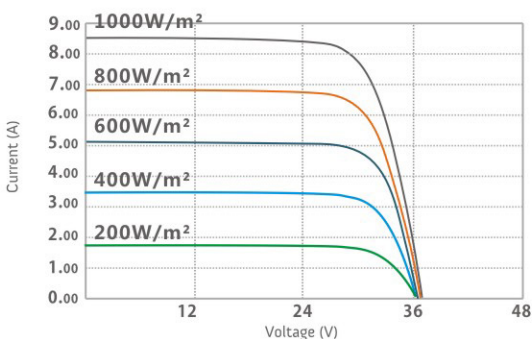
## ► Guarantee

- 10-year product guarantee
- 12-year performance guarantee at 90% power output
- 25-year power guarantee at 80% power output

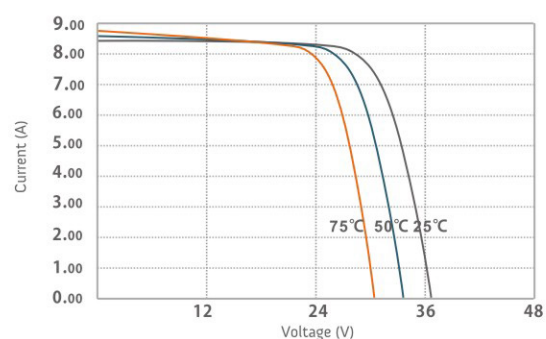
## ► Note

- Nominal operating cell temperature above data is only for reference
- Deviation of Vm(V), Im(A), Voc(V) and ISC(A) of ± 10%
- Due to continuous Innovation, research and improvement, the specification is subject to change without prior notice.

## ► I-V Curves



I-V Curves at different irradiance



I-V Curves at different temperature