

# Poly Crystalline Modules Detailed Specification

## Key Features



Polycrystalline modules designed for commercial and solar farm grid-tied applications



High output , 16.21% highest conversion efficiency



Anti-reflective and anti-soiling surface reduces power loss from dirt and dust



Outstanding performance in low-light irradiance environments



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



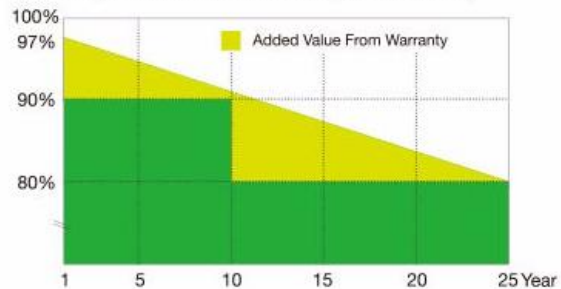
High salt and ammonia resistance certified by TÜV NORD

## Reliable Quality

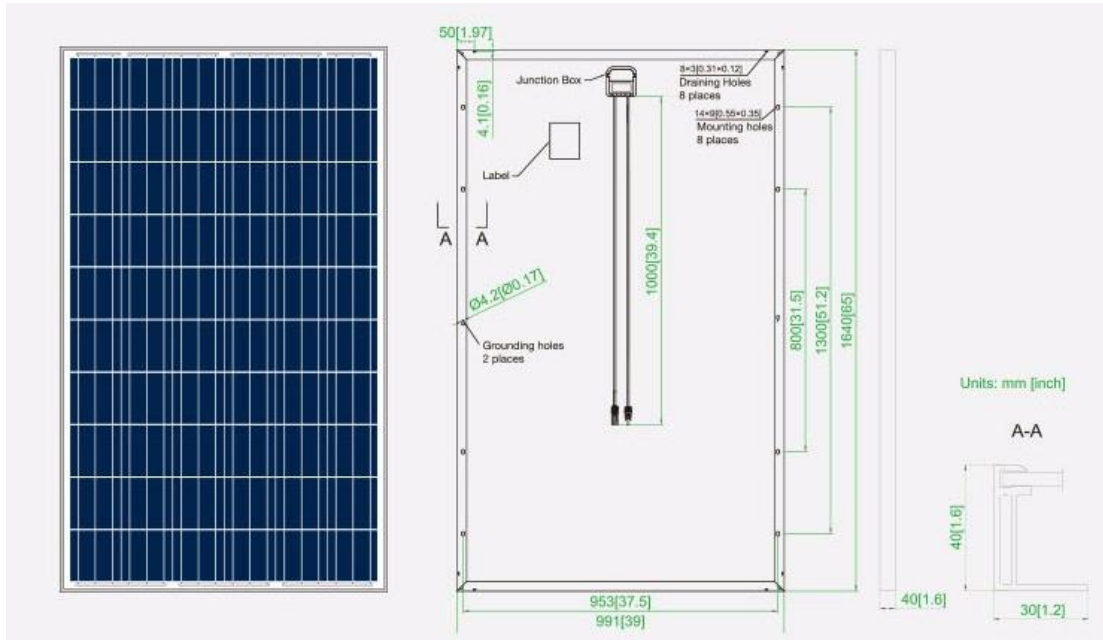
- Positive power tolerance: 0~+5W
- 100% EL double-inspection ensures modules are defects free
- Modules binned by current to improve system performance
- Potential Induced Degradation (PID) Resistant

## Superior Warranty

- 10-year product warranty
- 25-year linear power output warranty



Module	BSM245P-60	BSM250P-60	BSM255P-60	BSM260P-60	BSM265P-60
Rated Maximum Power at STC (W)	245	250	255	260	265
Open Circuit Voltage (Voc/V)	37.50	37.66	37.82	37.98	38.14
Maximum Power Voltage (Vmp/V)	29.59	29.94	30.29	30.63	30.96
Short Circuit Current (Isc/A)	8.86	8.92	8.98	9.04	9.10
Maximum Power Current (Imp/A)	8.28	8.35	8.42	8.49	8.56
Module Efficiency [%]	14.98	15.29	15.59	15.90	16.21
Power Tolerance (W)	-0~+5W				
Temperature Coefficient of Isc (αIsc)	+0.059%/°C				
Temperature Coefficient of Voc (βVoc)	-0.330%/°C				
Temperature Coefficient of Pmax (γPmp)	-0.410%/°C				
STC	Irradiance 1000W/m <sup>2</sup> , Cell Temperature 25°C, Air Mass 1.5				



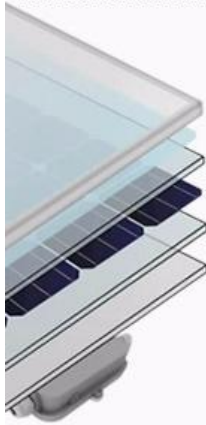
## Mechanical Parameters

Cell (mm)	Mono 156×156
Weight (kg)	18.2 (approx)
Dimensions (L×W×H) (mm)	1640×991×40
Cable Cross Section Size (mm <sup>2</sup> )	4
No. of Cells and Connections	60 (6×10)
Junction Box	IP67, 3 diodes
Connector	MC4 Compatible
Packaging Configuration	26 Per Pallet

## Working Conditions

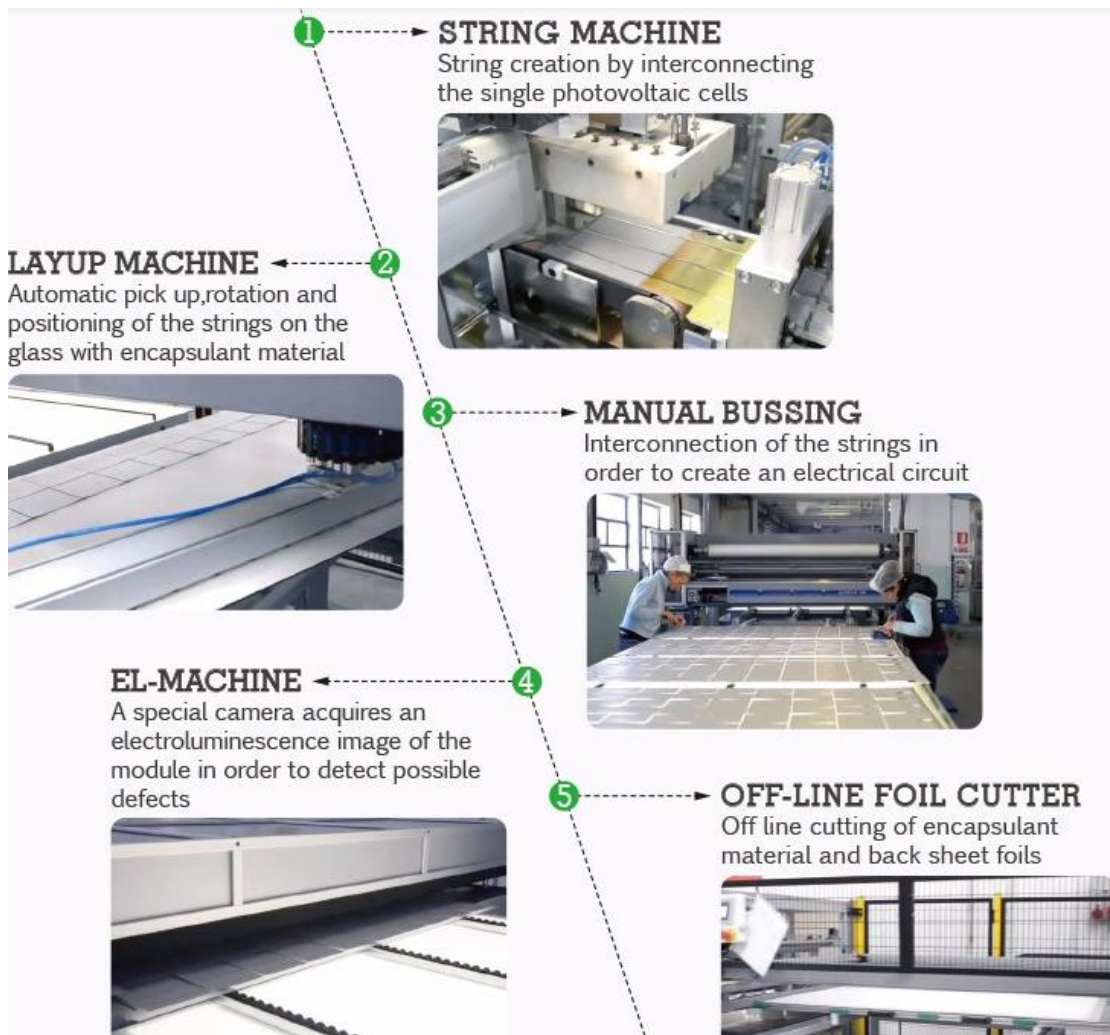
Maximum System Voltage	DC 1000V (IEC)
Operating Temperature	-40°C~+85°C
Maximum Series Fuse	15A
Maximum Static Load, Front (e.g., snow and wind)	5400Pa (112 lb/ft <sup>2</sup> )
Maximum Static Load, Back (e.g., wind)	2400Pa (50 lb/ft <sup>2</sup> )
NOCT	45±2°C
Application Class	Class A

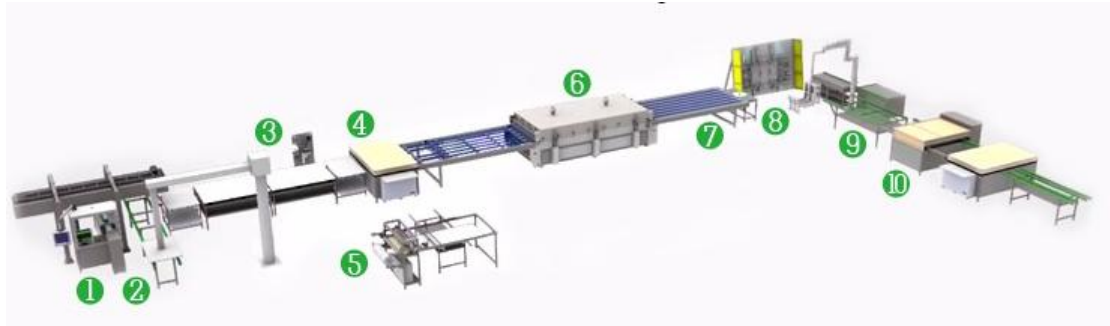
# PV MODULE ASSEMBLY LINE



Anodized aluminum frame  
Highly transparent tempered glass  
Encapsulant material-EVA  
Photovoltaic solar cells  
Encapsulant material-EVA  
Insulating back sheet  
Junction box

- ▶ 11 MODULES/HOUR
- ▶ 250W/MODULE
- ▶ 3 SHIFTS-8 HOURS
- ▶ 520 M<sup>2</sup>
- ▶ 5 OPERATORS/SHIFT





**6** → **LAMINATOR MACHINE**

During this process the encapsulant material cures and the multi-layer sandwich becomes one unit



**TRIMMING** ← **7**

Removal of surplus material along the sides



**8** → **FRAMING MACHINE**

Installation of the aluminum frame around the module



**J-BOX APPLICATION** ← **9**

Positioning and electrical connection of the junction box complete with cables



**10** → **SUN SIMULATOR MACHINE**

I-V curve acquisition in STC condition for the measurement of the peak power

