

**TracksunSolar,  
For Our Future!**

**\*SUPER QUALITY\*  
\*HIGH EFFICIENCY\*  
\*STRONG POWER\***

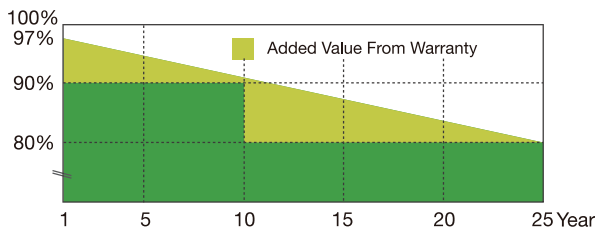
## **TS-300PB-60/5BB Black Polycrystalline 60 cells 280w-300w**

### **1** *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

### **2** *Superior Warranty*

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



### **3** *Key features*

-  Polycrystalline modules designed for commercial and solar farm grid-tied applications
-  High power output and 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 SUD

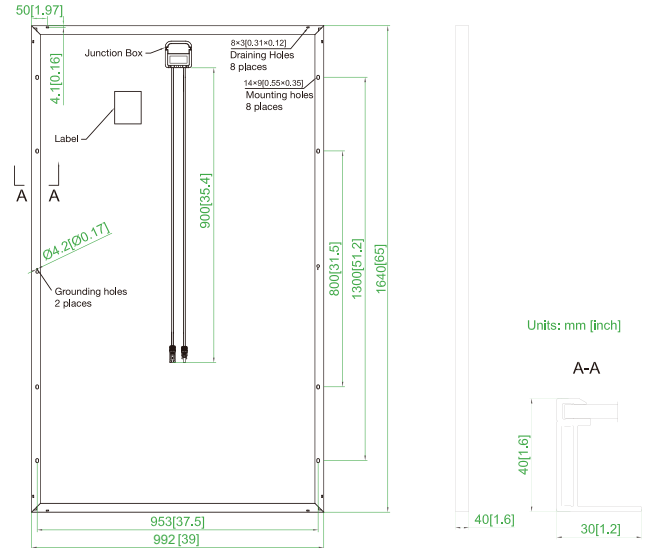
## Mechanical Parameters

Cell (mm)	Poly 156x156
Weight (kg)	18 (approx)
Glass Thickness	4/3.2mm
Dimensions (LxWxH) (mm)	1640/1650x992x35/40
Cable Cross Section Size (mm <sup>2</sup> )	4
No. of Cells and Connections	60 (6x10)
Junction Box	IP67, 3 diodes
Connector	MC4 Compatible
Packaging Configuration	26 Per Pallet

## Working Conditions

Maximum System Voltage	DC 1000V/1500V (IEC)
Operating Temperature	-40°C~+85°C
Maximum Series Fuse	20A
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

## Engineering Drawings



## Electrical Parameters

Module	TS-280PB-60	TS-285PB-60	TS-290PB-60	TS-295PB-60	TS-300PB-60
Rated Maximum Power at STC (W)	280	285	290	295	300
Open Circuit Voltage (Voc/V)	38.85	38.95	39.63	40.02	40.41
Maximum Power Voltage (Vmp/V)	31.88	32.18	32.56	32.90	33.24
Short Circuit Current (Isc/A)	9.33	9.43	9.56	9.63	9.70
Maximum Power Current (Imp/A)	8.78	8.85	8.91	8.97	9.03
Module Efficiency [%]	17.12	17.55	17.86	18.16	18.47
Power Tolerance (W)			-0~+5W		
Temperature Coefficient of Isc (αIsc)			+0.058%/°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				

## I-V Curve

