TWxxxL72-EA
Polycrystalline Silicon PV Module

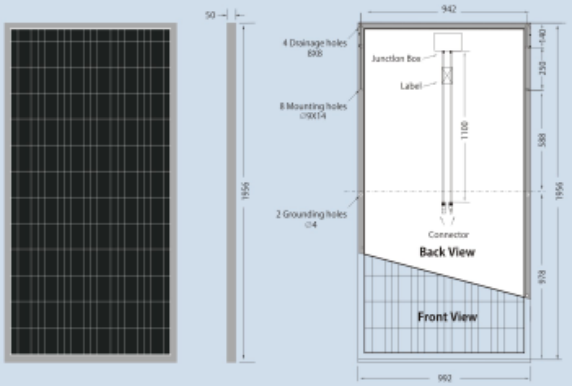
Product Specification
(72pcs Griffin 156×156mm cells,With Tongling J-box1000V System Voltage)

Typical Electrical Characteristics

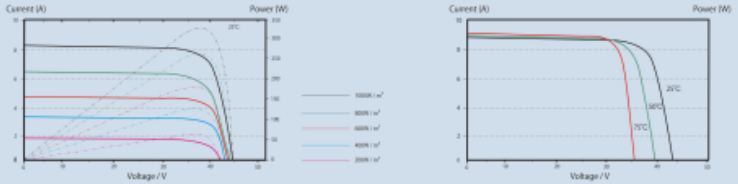
Typical Type	Unit	TW290L72-EA	TW295L72-EA	TW300L72-EA	TW305L72-EA	TW310L72-EA
Max-Power	P_m (W)	290	295	300	305	310
Power Tolerance	W	0 ~ + 5		0 ~ + 5		
Max-Power Voltage	V_m (V)	35.7	36.1	36.5	36.9	37.3
Max-Power Current	I_m (A)	8.12	8.18	8.22	8.27	8.32
Open-Circuit Voltage	V_{oc} (V)	44.8	45.0	45.5	45.7	45.9
Short-Circuit Current	I_{sc} (A)	8.74	8.86	8.89	8.91	8.93
Encapsulated Cell Efficiency	η_c (%)	16.75	17.00	17.25	17.50	17.75
Module Efficiency	η_m (%)	14.95	15.21	15.47	15.72	15.98
Test Condition		STC:AM=1.5, 1000W / m², Cells Temperature 25℃		STC:AM=1.5, 1000W / m², Cells Temperature 25℃		
Operating temperature range		- 40℃ ~ + 85℃		- 40℃ ~ + 85℃		

MECHANICAL CHARACTERISTICS

Dimension(L×W×H)	1956mm×992mm×50mm
Installation Hole Dimension	860mm×942mm
Weight	27kg
Front cover (material/type/thickness)	Low iron tempered glass 3.2mm
Cell(quantity/material/type/dimensions)	72 (12×6) / Monocrystalline /156 mm×156 mm
Encapsulant (material)	EVA
Frame(material/color/anodizationcolor)	Anodized aluminum alloy/ silver/clear
Junction box(protection degree)	Ip65 & IP67
Cable (length/cross-section area)	1100 mm/4 mm²



I-V Curves of TW295L72-EA at different irradiance



WARRANTY

Manufacturing: 10 years

Power Output:

- Within the first one year, the output power shall not degrade more than 2%
- Within the first two years, the output shall not degrade more than 3%
- In the following 23 years, the average annual power degradation shall not exceed more than 0.7%

PACKAGING

Container	20Ft（pcs）	40Ft（pcs）	40Hft（pcs）
Modules/pallet	18	18	20
Loading Capacity	180	396	440

50+25
History + Quality assurance