



TracksunSolar,
For our Future!

PRODUCT BROCHURE

Track Sun Solar Energy

Track Sun Solar Energy Technology Co.,Limited is a Chinese solar equipment and service company, headquartered in Ningbo. Its subsidiary corporation Ningbo Track Sun Solar Energy Co.,Ltd is very professional in the production and sales of the the crystal silicon solar cell & PV module.

Track Sun Solar company has two solar module manufacturing factories with full capacity of 500MW per year. And one solar cable manufacturing factory. We have a big warehouse in Kunshan city with all kinds of stock modules. We have sales and service office center in USA, Germany,Brazil, Autria,Etc. Our products are shipped to more than 40 countries.

Our company is mainly committed to two business directions: PV products and PV system design. We professionally provide crystal silicon solar cell & PV module, solar battery,solar cable, MC4 connectors,mentary electric power of wind/solar/electric as well as other solar power systems, in addition, we can also supply the high quality and efficiency services of the solar product and the solar system design, installation, commissioning and maintenance.

■ Location advantage

The company head office is well-located in Ningbo, one of the Chinese famous historical and cultural city, the detail address is Block E,NO.55, zhanwang road, zhanqi town, yinzhou district , Ningbo ,Zhejiang, China, distance from the largest deep water port - Beilun port is less than 30 kilometers, has a unique geographical advantage.

■ Customs import & export advantage

The park implements the "customs territory" mode of operation, it is one of the highest opening to the outside world, the most active operation mechanism, and the most preferential policies special economic zones.

■ Airport import & export advantage

The park started the Shanghai airport direct customs, for providing the high quality, safe, efficient and low cost service to the enterprises in the area.



PROPSOLAR 700KW SOLAR ON
GRID SYSTEM IN JAPAN



品质可靠 Proven Quality

Track Sun Solar has been awarded certificates from leading global PV testing services providers in the key markets, such as tuv in europe, UL in the North America and Inmetro in Brazil. Independent testing and certification in various geographic markets confirm that Track Sun Solar products meet advanced specification in terms of durability, reliability and robustness that our customers require

优质服务 Service

When you choose a solar panel manufacturer, you are not just selecting a piece of electrical equipment, instead you are entering a decades-long relationship. Our local customer support teams, spread across offices around the world, are proactive and responsive in helping you tackle the unique challenges associated with bringing you solar projects to life, and ensuring long-term performance.

Specification List for Mono-crystalline silicon PV module

Item	Power (w)	Max Power Voltage(V)	Max Power Current (A)	Open Circuit Voltage (V)	Short Circuit Current(A)	Number of cells(pcs)	Size of cells(mm)	Module size(mm)	Weight (Kg)	Cell efficiency	Module efficiency
TS-5M-36	5	18.57	0.27	22.64	0.29	3*12	52*17.33	260x210x17	0.7	17.25%	9.16%
TS-10M-36	10	18.57	0.54	22.64	0.58	4*9	78*22.28	250x360x17	1.2	16.90%	11.11%
TS-20M-36	20	18.82	1.08	22.58	1.19	2*18	156*22.28	485x360x20	2.3	17.25%	11.45%
TS-30M-36	30	17.80	1.69	22.20	1.80	4*9	156*22.29	430x545x25	2.5	18.57%	12.80%
TS-40M-36	40	17.80	2.25	22.30	2.39	4*9	156*22.30	410x670x25	3.2	19.60%	14.56%
TS-50M-36	50	17.80	2.81	22.40	3.02	4*9	156*52	540x670x25	4.0	17.96%	13.82%
TS-70M-36	70	15.09	4.64	18.39	5.14	4*9	156*78	780x670x30	6.6	15.99%	13.75%
TS-80M-36	80	18.11	4.42	22.07	4.90	4*9	156*78	780x670x30	6.6	19.05%	15.71%
TS-90M-36	90	18.14	4.96	22.09	5.43	4*9	125*125	1195x545x35	8.0	16.81%	13.82%
TS-100M-36	100	18.16	5.51	22.13	6.03	4*9	125*125	1195x545x35	8.0	18.68%	15.35%
TS-120M-48	120	24.21	4.96	29.48	5.50	6*8	125*125	1065x808x35	10.0	19.82%	13.95%
TS-130M-36	130	18.02	7.21	22.92	7.71	4*9	156*156	1185x670x35	12.0	19.60%	16.40%
TS-140M-36	140	17.76	7.88	22.08	8.45	4*9	156*156	1480x670x35	12.0	16.27%	14.06%
TS-150M-36	150	17.83	8.40	22.38	8.94	4*9	156*156	1480x670x35	12.0	17.90%	15.06%
TS-160M-36	160	17.86	8.78	22.60	9.49	4*9	156*156	1480x670x35	12.0	19.10%	16.06%
TS-170M-36	170	17.90	9.50	22.80	9.74	4*9	156*156	1480x670x35	12.0	20.37%	17.07%
TS-180M-36	180	18.10	9.94	23.00	10.23	4*9	156*156	1480x670x35	12.0	21.60%	18.15%
TS-190M-36	190	18.30	10.38	23.20	10.70	4*9	156*156	1480x670x35	12.0	22.70%	19.10%
TS-200M-72	200	36.45	5.49	44.37	6.01	6*12	125*125	1580x808x35	15.0	18.68%	15.67%
TS-210M-54	210	27.35	7.68	32.97	8.49	6*9	156*156	1480x992x40	17.0	16.27%	14.28%
TS-220M-54	220	27.63	7.97	33.18	8.84	6*9	156*156	1480x992x40	17.0	17.05%	14.96%
TS-230M-54	230	27.92	8.24	33.52	9.15	6*9	156*156	1480x992x40	17.0	17.82%	15.64%
TS-250M-60	250	30.73	8.14	36.91	9.03	6*10	156*156	1640x992x40	18.0	17.63%	15.37%
TS-260M-60	260	30.92	8.41	37.36	9.28	6*10	156*156	1640x992x40	18.0	18.34%	15.98%
TS-270M-60	270	31.14	8.67	37.40	9.63	6*10	156*156	1640x992x40	18.0	19.04%	16.60%
TS-280M-60	280	31.86	8.84	39.05	9.70	6*10	156*156	1640x992x40	18.0	19.53%	17.21%
TS-290M-60	290	32.07	9.11	39.07	9.80	6*10	156*156	1640x992x40	18.0	20.23%	17.83%
TS-300M-60	300	31.33	9.57	39.09	10.27	6*10	156*156	1640x992x40	18.0	20.80%	18.44%
TS-300M-72	300	37.24	8.06	44.66	9.18	6*12	156*156	1956x992x40	23.0	17.63%	15.88%
TS-310M-72	310	37.54	8.26	44.76	9.23	6*12	156*156	1956x992x40	23.0	18.22%	15.98%
TS-320M-72	320	37.83	8.46	44.84	9.52	6*12	156*156	1956x992x40	23.0	18.81%	16.49%
TS-330M-72	330	37.87	8.72	44.88	9.80	6*12	156*156	1956x992x40	23.0	19.39%	17.01%
TS-340M-72	340	38.45	8.85	46.37	9.85	6*12	156*156	1956x992x40	23.0	19.99%	17.52%
TS-350M-72	350	38.98	8.98	46.64	9.87	6*12	156*156	1956x992x40	23.0	20.57%	18.00%
TS-360M-72	360	39.01	9.23	47.44	9.88	6*12	156*156	1956x992x40	23.0	21.16%	18.55%
TS-370M-72	370	39.40	9.41	47.81	9.89	6*12	156*156	1956x992x40	23.0	21.74%	19.06%
TS-380M-72	380	39.55	9.61	48.06	10.11	6*12	156*156	1956x992x40	23.0	22.33%	19.58%
TS-405M-HC	405	41.59	9.74	49.53	10.31	6*24	158.75*158*75	2008*1002*35	22.5	22.22%	20.13%
TS-410M-HC	410	41.85	9.80	49.80	10.38	6*24	158.75*158*75	2008*1002*35	22.5	22.58%	20.38%
TS-420M-HC	420	42.35	9.92	50.32	10.52	6*24	158.75*158*75	2008*1002*35	22.5	23.13%	20.87%
TS-440M-HC	440	40.85	10.77	48.50	11.24	6*24	166*166	2094*1038*35	23.5	22.13%	20.24%
TS-450M-HC	450	41.32	10.89	49.05	11.37	6*24	166*166	2094*1038*35	23.5	22.68%	20.70%
TS-530M-HC	530	41.43	12.79	49.30	13.52	6*24	182*182	2256*1133*35	27.0	22.22%	20.74%
TS-540M-HC	540	41.76	12.93	49.70	13.72	6*24	182*182	2256*1133*35	27.0	22.64%	21.13%



Specification List for Poly-crystalline silicon PV module

Item	Power (w)	Max Power Voltage (V)	Max Power Current (A)	Open Circuit Voltage(V)	Short Circuit Current(A)	Number of cells(pcs)	Size of cell(mm)	Module size(mm)	Weight (Kg)	Cell efficiency	Module efficiency
TS-5P-36	5	17.60	0.29	21.80	0.31	3*12	52*17.33	260x210x17	0.70	15.57%	9.15%
TS-10P-36	10	18.20	0.55	21.96	0.59	4*9	78*22.28	250x360x17	1.30	15.57%	10.52%
TS-20P-36	20	17.20	1.17	21.80	1.23	2*18	156*22.28	480x350x25	2.20	15.72%	11.90%
TS-30P-36	30	17.20	1.75	21.80	1.85	4*9	156*39	410x670x25	3.70	14.48%	10.92%
TS-40P-36	40	17.50	2.28	21.82	2.60	4*9	156*43	450x670x25	4.00	17.46%	13.26%
TS-50P-36	50	17.50	2.86	21.60	3.12	4*9	156*52	540x670x25	4.30	17.63%	13.81%
TS-60P-36	60	18.01	3.36	21.61	3.70	4*9	156*65	670x670x30	5.20	16.42%	13.36%
TS-70P-36	70	18.50	3.82	22.14	4.05	4*9	156*78	760x670x30	6.10	16.67%	13.74%
TS-80P-40	80	17.17	4.66	21.55	4.95	4*10	156*78	840x670x35	6.80	17.06%	14.21%
TS-90P-72	90	17.20	5.23	21.80	5.43	4*18	156*52	1000x670x35	8.90	16.02%	13.43%
TS-100P-72	100	17.20	5.82	21.80	6.18	4*18	156*52	1000x670x35	8.90	17.81%	14.92%
TS-110P-72	110	17.20	6.40	21.80	6.82	4*18	156*52	1000x670x35	9.70	15.50%	13.62%
TS-120P-36	120	17.30	6.94	21.60	7.51	4*9	156*130	1230x670x35	10.50	15.50%	13.71%
TS-130P-36	130	17.50	7.43	21.90	8.02	4*9	156*156	1480x670x35	12.00	15.10%	13.05%
TS-140P-36	140	17.60	7.96	22.05	8.58	4*9	156*156	1480x670x35	12.00	16.30%	14.06%
TS-150P-36	150	17.50	8.60	22.40	8.96	4*9	156*156	1480x670x35	12.00	17.60%	15.06%
TS-160P-36	160	17.70	9.04	22.60	9.25	4*9	156*156	1480x670x35	12.00	18.80%	16.06%
TS-170P-36	170	17.90	9.50	22.80	9.74	4*9	156*156	1480x670x35	13.00	19.98%	17.14%
TS-180P-72	180	36.40	4.95	44.26	5.35	6*12	156*104	1320x992x35	13.00	17.90%	15.71%
TS-190P-72	190	36.20	5.25	44.22	5.65	6*12	156*104	1320x992x35	15.00	16.60%	14.51%
TS-200P-72	200	36.20	5.53	44.24	5.95	6*12	156*104	1320x992x35	15.00	17.40%	15.27%
TS-210P-54	210	27.35	7.68	32.92	8.51	6*9	156*156	1480x992x40	17.00	16.30%	14.28%
TS-220P-54	220	27.57	7.98	33.08	8.87	6*9	156*156	1480x992x40	17.00	17.08%	14.96%
TS-230P-54	230	27.82	8.27	33.48	9.16	6*9	156*156	1480x992x40	17.00	17.85%	15.64%
TS-240P-60	240	30.55	7.86	36.75	8.82	6*10	156*156	1640x992x40	18.00	16.70%	14.66%
TS-250P-60	250	30.68	8.15	36.90	9.03	6*10	156*156	1640x992x40	18.00	17.63%	15.37%
TS-260P-60	260	30.92	8.41	37.90	9.15	6*10	156*156	1640x992x40	18.00	18.34%	15.98%
TS-270P-60	270	31.60	8.55	37.94	9.16	6*10	156*156	1640x992x40	18.00	18.86%	16.60%
TS-280P-60	280	31.88	8.78	38.85	9.33	6*12	156*156	1640x992x40	18.00	19.17%	17.12%
TS-290P-72	290	36.80	7.88	44.28	8.85	6*12	156*156	1956x992x40	23.00	16.80%	14.68%
TS-300P-72	300	37.23	8.06	44.71	8.95	6*12	156*156	1956x992x40	23.00	17.46%	15.46%
TS-310P-72	310	37.32	8.31	44.76	9.23	6*12	156*156	1956x992x40	23.00	18.05%	15.98%
TS-320P-72	320	37.62	8.51	44.84	9.27	6*12	156*156	1956x992x40	23.00	18.63%	16.49%
TS-330P-72	330	38.48	8.58	45.49	9.31	6*12	156*156	1956x992x40	23.00	19.21%	17.07%
TS-340P-72	340	38.49	8.90	46.50	9.45	6*12	156*156	1956x992x40	23.00	20.00%	17.52%
TS-350P-72	350	38.50	9.09	46.90	9.60	6*12	156*156	1956x992x40	23.00	20.60%	18.03%
TS-420P-96	420	48.98	8.57	58.42	9.16	8*12	156*156	1956x1310x40	29.00	18.40%	16.39%
TS-425P-96	425	49.02	8.66	58.55	9.27	8*12	156*156	1956x1310x40	29.00	18.60%	16.60%





TRACK SUN SOLAR ENERGY

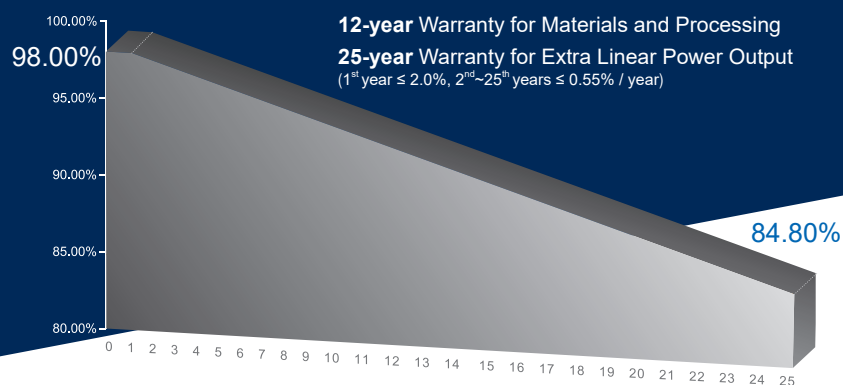
Create Sustainable and Efficient Solar Green Energy



405W~420W

Monocrystalline PV Module

TS-M144-HC/9BB Series (158.75)



KEY FEATURES



OUTPUT POSITIVE TOLERANCE

Guaranteed 0~+5W positive tolerance to ensure power output.



INNOVATIONAL HALF-CUT TECHNOLOGY

Better shading tolerance, higher reliability.



INNOVATIONAL MULTI-BUSBAR TECHNOLOGY

Higher light absorption, lower risk of microcrack.



SUPER PERC+ CELL TECHNOLOGY

Higher module power and module efficiency, lower power degradation.



PID RESISTANCE

Excellent PID resistance.

COMPREHENSIVE CERTIFICATES



TRACK SUN SOLAR ENERGY,
FOR OUR FUTURE LIFE!

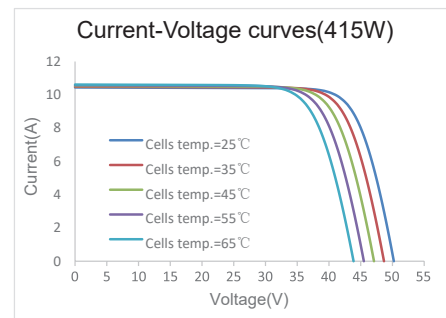
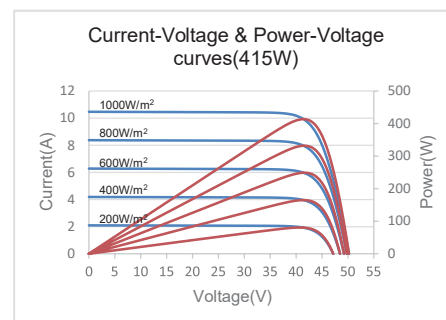
ELECTRICAL SPECIFICATIONS

STC rated output (P_{mpp})	405 Wp	410 Wp	415 Wp	420 Wp
Rated voltage (V_{mpp}) at STC	41.59 V	41.85 V	42.11 V	42.35 V
Rated current (I_{mpp}) at STC	9.74 A	9.80 A	9.86 A	9.92 A
Open circuit voltage (V_{oc}) at STC	49.53 V	49.80 V	50.06 V	50.32 V
Short circuit current (I_{sc}) at STC	10.31 A	10.38 A	10.45 A	10.52 A
Module efficiency	20.0%	20.3%	20.5%	20.8%
Rated output (P_{mpp}) at NMOT	301.1 Wp	304.8 Wp	308.5 Wp	312.2 Wp
Rated voltage (V_{mpp}) at NMOT	38.61 V	38.84 V	39.08 V	39.31 V
Rated current (I_{mpp}) at NMOT	7.80 A	7.85 A	7.89 A	7.94 A
Open circuit voltage (V_{oc}) at NMOT	46.38 V	46.64 V	46.88 V	47.12 V
Short circuit current (I_{sc}) at NMOT	8.31 A	8.36 A	8.42 A	8.48 A
Temperature coefficient (P_{mpp})	- 0.35%/°C			
Temperature coefficient (I_{sc})	+0.035%/°C			
Temperature coefficient (V_{oc})	- 0.28%/°C			
Nominal module operating temperature (NMOT)	41±2°C			
Maximum system voltage (IEC/UL)	1500V _{DC}			
Number of diodes	3			
Junction box IP rating	IP 68			
Maximum series fuse rating	20 A			

STC: Irradiance 1000W/m², Cell Temperature 25°C, AM=1.5

NMOT: Irradiance 800W/m², Ambient Temperature 20°C, AM=1.5, Wind Speed 1m/s

CURVE



MECHANICAL SPECIFICATIONS

Outer dimensions (L x W x H)	2018 x 1002 x 35 mm
Frame technology	Aluminum, silver anodized
Front glass thickness	3.2 mm
Cable length (IEC/UL)	Portrait: 350 mm Landscape: 1200 mm
Cable diameter (IEC/UL)	4 mm ² / 12 AWG
① Maximum mechanical test load	5400 Pa (front) / 2400 Pa (back)
Fire performance (IEC/UL)	Class C (IEC) or Type 4 (UL)
Connector type (IEC/UL)	HCB40 / MC4-EVO2

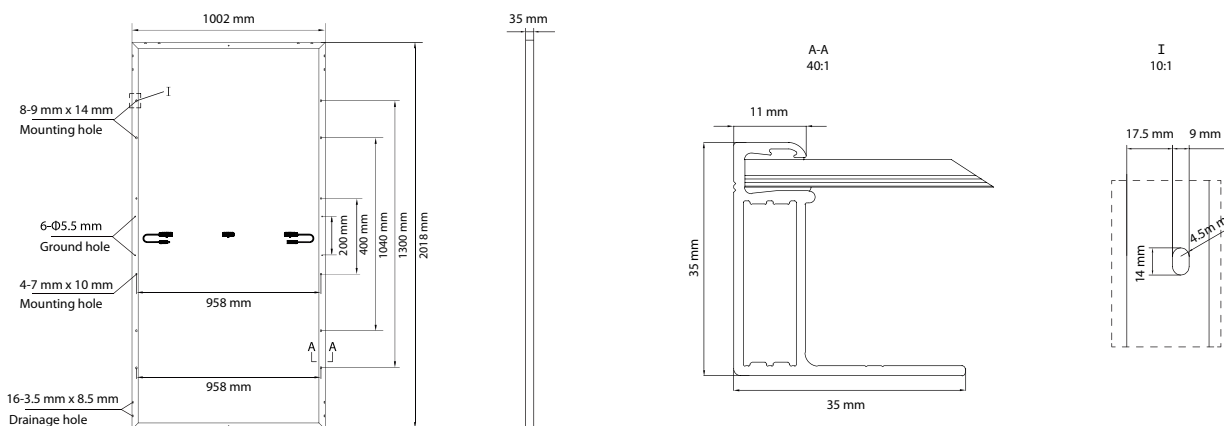
① Refer to TracksunSolar crystalline installation manual or contact technical department.
Maximum Mechanical Test Load=1.5×Maximum Mechanical Design Load.

PACKING SPECIFICATIONS

① Module Weight	22.6 kg
② Packing unit	31 pcs / box
Weight of packing unit (for 40'HQ container)	746 kg
Number of modules per 40'HQ container	682 pcs

① Tolerance +/- 1.0kg
② Subject to sales contract

MODULE DIMENSION DETAILS



© Ningbo Track Sun Solar Energy Co., Ltd.

Add: Block E, No. 55, Zhangwang Road, Zhanqi Town, Yinzhou District, Ningbo, Zhejiang, China

Web: www.tracksunsolar.cn Email: sales@tracksunsolar.cn



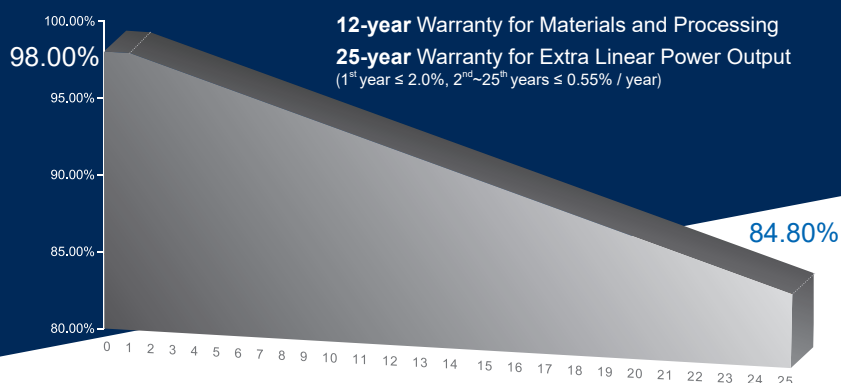
TRACK SUN SOLAR ENERGY

Create Sustainable and Efficient Solar Green Energy

440W~455W

Monocrystalline PV Module

TS-M144-HC/9BB Series (166)



KEY FEATURES



OUTPUT POSITIVE TOLERANCE

Guaranteed 0~+3W positive tolerance to ensure power output.



INNOVATIONAL HALF-CUT TECHNOLOGY

Better shading tolerance, higher reliability.



INNOVATIONAL MULTI-BUSBAR TECHNOLOGY

Higher light absorption, lower risk of microcrack.



SUPER PERC+ CELL TECHNOLOGY

Higher module power and module efficiency, lower power degradation.



PID RESISTANCE

Excellent PID resistance.

COMPREHENSIVE CERTIFICATES



TRACK SUN SOLAR ENERGY,
FOR OUR FUTURE LIFE!

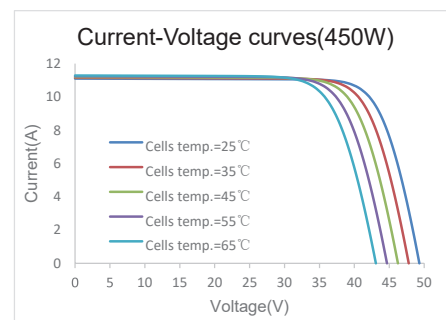
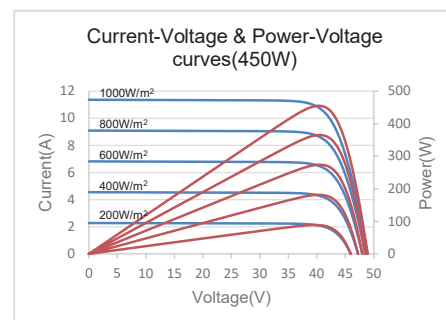
ELECTRICAL SPECIFICATIONS

STC rated output (P_{mpp})	440 Wp	445 Wp	450 Wp	455 Wp
Rated voltage (V_{mpp}) at STC	40.85 V	41.05 V	41.32 V	41.51 V
Rated current (I_{mpp}) at STC	10.77 A	10.84 A	10.89 A	10.96 A
Open circuit voltage (V_{oc}) at STC	48.50 V	48.80 V	49.05 V	49.35 V
Short circuit current (I_{sc}) at STC	11.24 A	11.30 A	11.37 A	11.44 A
Module efficiency	20.2%	20.5%	20.7%	20.9%
Rated output (P_{mpp}) at NMOT	327.1 Wp	330.8 Wp	334.5 Wp	338.2 Wp
Rated voltage (V_{mpp}) at NMOT	37.93 V	38.12 V	38.37 V	38.55 V
Rated current (I_{mpp}) at NMOT	8.62 A	8.68 A	8.72 A	8.78 A
Open circuit voltage (V_{oc}) at NMOT	45.42 V	45.70 V	45.94 V	46.22 V
Short circuit current (I_{sc}) at NMOT	9.06 A	9.10 A	9.16 A	9.22 A
Temperature coefficient (P_{mpp})	- 0.35%/°C			
Temperature coefficient (I_{sc})	+0.035%/°C			
Temperature coefficient (V_{oc})	- 0.28%/°C			
Nominal module operating temperature (NMOT)	41±2°C			
Maximum system voltage (IEC/UL)	1500V _{DC}			
Number of diodes	3			
Junction box IP rating	IP 68			
Maximum series fuse rating	20 A			

STC: Irradiance 1000W/m², Cell Temperature 25°C, AM=1.5

NMOT: Irradiance 800W/m², Ambient Temperature 20°C, AM=1.5, Wind Speed 1m/s

CURVE



MECHANICAL SPECIFICATIONS

Outer dimensions (L x W x H)	2094 x 1038 x 35 mm
Frame technology	Aluminum, silver anodized
Front glass thickness	3.2 mm
Cable length (IEC/UL)	Portrait: 300 mm Landscape: 1300 mm
Cable diameter (IEC/UL)	4 mm ² / 12 AWG
① Maximum mechanical test load	5400 Pa (front) / 2400 Pa (back)
Fire performance (IEC/UL)	Class C (IEC) or Type 4 (UL)
Connector type (IEC/UL)	HCB40 / MC4-EVO2

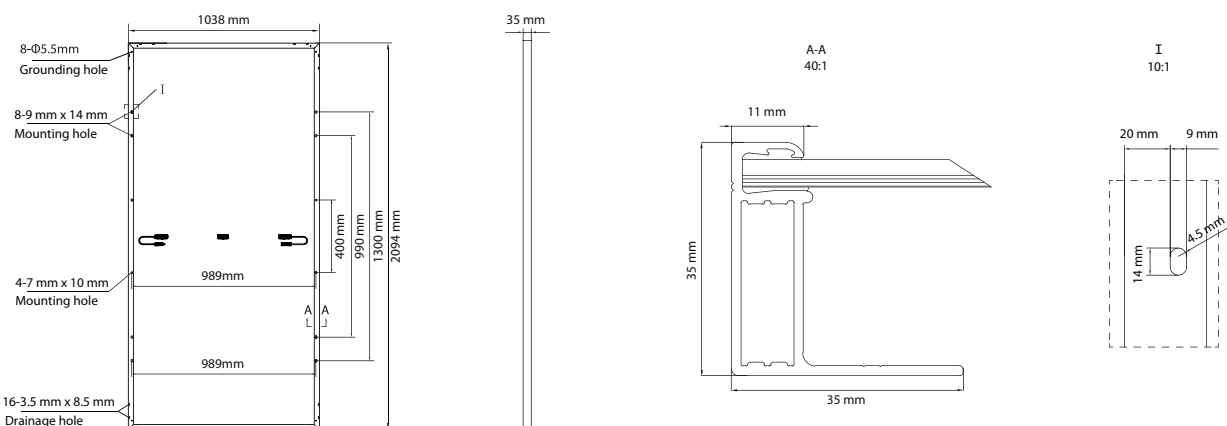
① Refer to TracksunSolar crystalline installation manual or contact technical department.
Maximum Mechanical Test Load=1.5×Maximum Mechanical Design Load.

PACKING SPECIFICATIONS

① Module Weight	23.5 kg
② Packing unit	31 pcs / box
Weight of packing unit (for 40'HQ container)	772 kg
Number of modules per 40'HQ container	682 pcs

① Tolerance +/- 1.0kg
② Subject to sales contract

MODULE DIMENSION DETAILS



© Ningbo Track Sun Solar Energy Co., Ltd.

Add: Block E, No. 55, Zhangwang Road, Zhanqi Town, Yinzhou District, Ningbo, Zhejiang, China

Web: www.tracksunsolar.cn Email: sales@tracksunsolar.cn



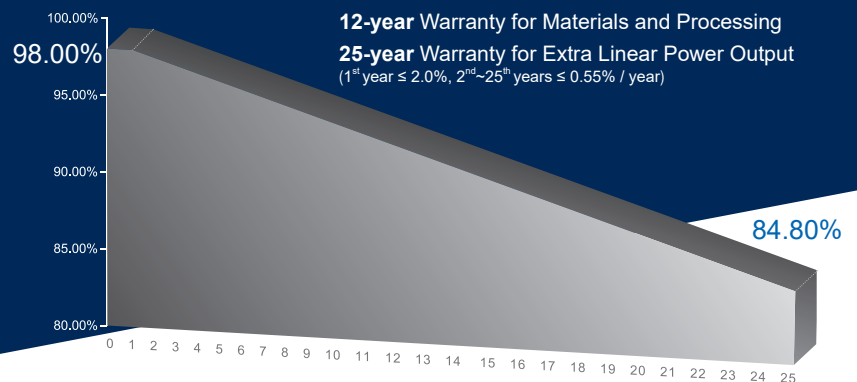
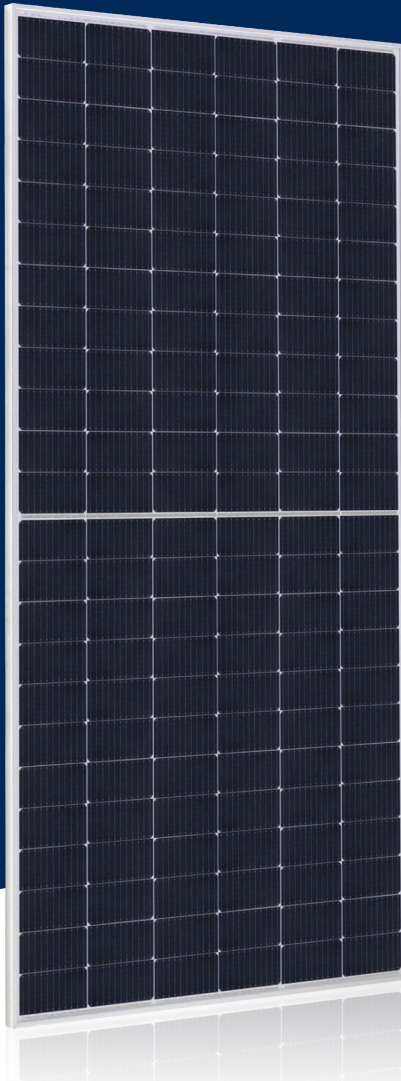
TRACK SUN SOLAR ENERGY

Create Sustainable and Efficient Solar Green Energy

525W~545W

Monocrystalline PV Module

TS-M144-HC/9BB Series (182)



KEY FEATURES



OUTPUT POSITIVE TOLERANCE

Guaranteed 0~+5W positive tolerance to ensure power output.



NON-DESTRUCTIVE CUTTING

Higher bending strength of cells and mechanical properties of modules.



HIGH CUSTOMER VALUE

Lower BOS cost and LCOE.



INNOVATIONAL HALF-CUT&MULTI-BUSBAR TECHNOLOGY

Lower risk of microcrack, better shading tolerance, higher reliability.



SUPER PERC+ CELL TECHNOLOGY

Higher module power and module efficiency, lower power degradation.



PID RESISTANCE

Excellent PID resistance.

COMPREHENSIVE CERTIFICATES



TRACK SUN SOLAR ENERGY,
FOR OUR FUTURE LIFE!

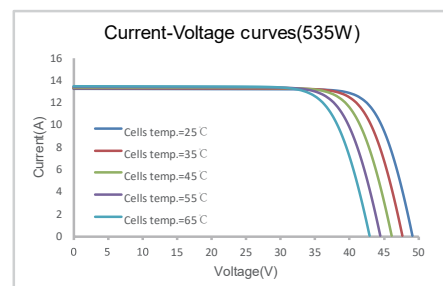
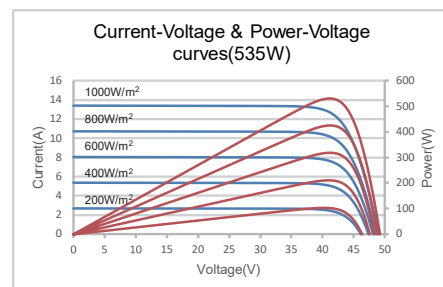
ELECTRICAL SPECIFICATIONS

STC rated output (P_{mpp})	525 Wp	530 Wp	535 Wp	540 Wp	545 Wp
Rated voltage (V_{mpp}) at STC	41.26 V	41.43 V	41.60 V	41.76 V	41.93 V
Rated current (I_{mpp}) at STC	12.72 A	12.79 A	12.86 A	12.93 A	13.00 A
Open circuit voltage (V_{oc}) at STC	49.10 V	49.30 V	49.50 V	49.70 V	49.90 V
Short circuit current (I_{sc}) at STC	13.43 A	13.52 A	13.61 A	13.72 A	13.81 A
Module efficiency	20.5%	20.7%	20.9%	21.1%	21.3%
Rated output (P_{mpp}) at NMOT	392.3 Wp	396.1 Wp	399.8 Wp	403.5 Wp	407.3 Wp
Rated voltage (V_{mpp}) at NMOT	38.45 V	38.61 V	38.77 V	38.92 V	39.08 V
Rated current (I_{mpp}) at NMOT	10.20 A	10.26 A	10.31 A	10.37 A	10.42 A
Open circuit voltage (V_{oc}) at NMOT	46.40 V	46.59 V	46.78 V	46.97 V	47.16 V
Short circuit current (I_{sc}) at NMOT	10.90 A	10.97 A	11.04 A	11.13 A	11.20 A
Temperature coefficient (P_{mpp})	- 0.35%/°C				
Temperature coefficient (I_{sc})	+0.045%/°C				
Temperature coefficient (V_{oc})	- 0.27%/°C				
Nominal module operating temperature (NMOT)	41±2°C				
Maximum system voltage (IEC/UL)	1500V _{DC}				
Number of diodes	3				
Junction box IP rating	IP 68				
Maximum series fuse rating	25 A				

STC: Irradiance 1000W/m², Cell Temperature 25°C, AM=1.5

NMOT: Irradiance 800W/m², Ambient Temperature 20°C, AM=1.5, Wind Speed 1m/s

CURVE



MECHANICAL SPECIFICATIONS

Outer dimensions (L x W x H)	2256 x 1133 x 35 mm
Frame technology	Aluminum, silver anodized
Front glass thickness	3.2 mm
Cable length (IEC/UL)	Portrait: 300 mm Landscape: 1400 mm
Cable diameter (IEC/UL)	4 mm ² / 12 AWG
① Maximum mechanical test load	5400 Pa (front) / 2400 Pa (back)
Fire performance (IEC/UL)	Class C (IEC) or Type 4 (UL)
Connector type (IEC/UL)	HCB40 / MC4-EVO2

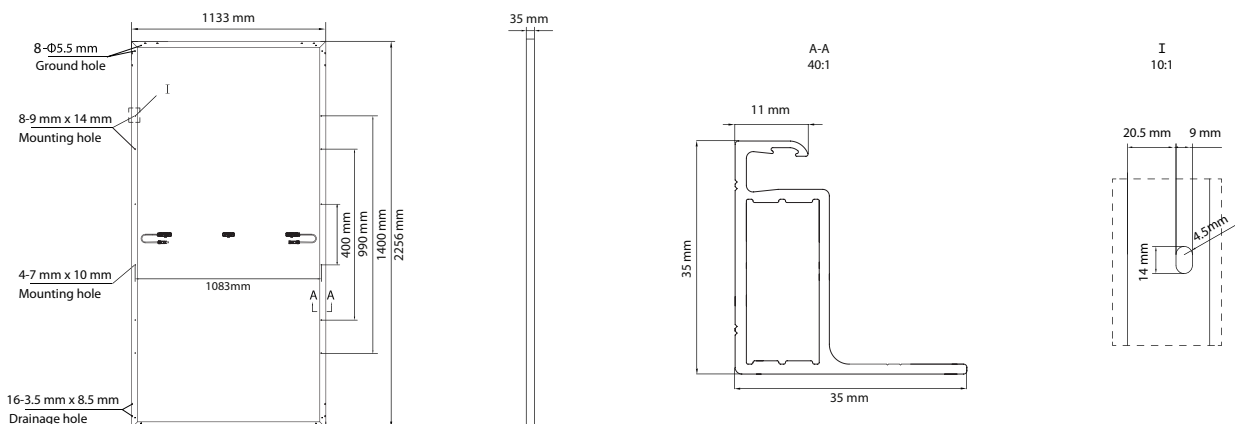
① Refer to TracksunSolar crystalline installation manual or contact technical department.
Maximum Mechanical Test Load=1.5×Maximum Mechanical Design Load.

PACKING SPECIFICATIONS

① Module Weight	27.2 kg
② Packing unit	31 pcs / box
Weight of packing unit (for 40'HQ container)	882 kg
Number of modules per 40'HQ container	620 pcs

① Tolerance +/- 1.0kg
② Subject to sales contract

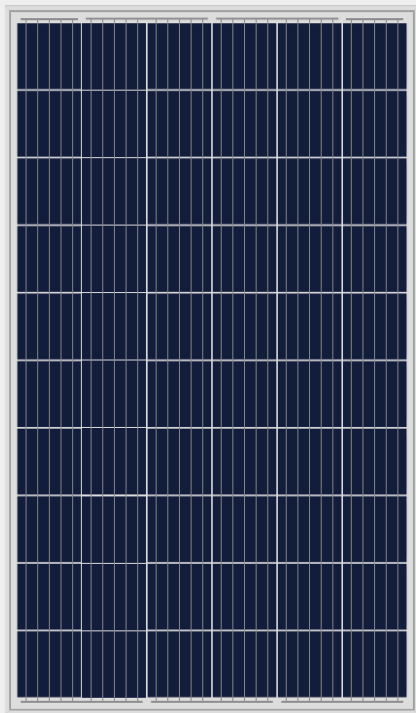
MODULE DIMENSION DETAILS



© Ningbo Track Sun Solar Energy Co., Ltd.

Add: Block E, No. 55, Zhangwang Road, Zhanqi Town, Yinzhou District, Ningbo, Zhejiang, China

Web: www.tracksunsolar.cn Email: sales@tracksunsolar.cn



**TracksunSolar,
For Our Future!**

SUPER QUALITY
HIGH EFFICIENCY
STRONG POWER



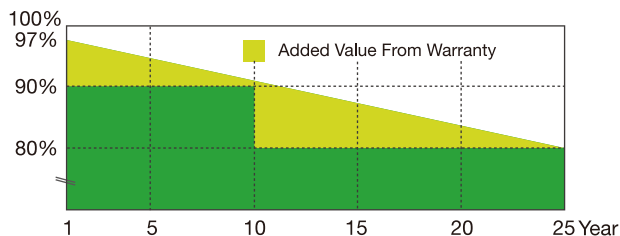
TS-270P-60/ Polycrystalline 60 cells

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 NORD



+0086-150-8881-7303



sales@tracksunsolar.cn

www.tracksunsolar.cn



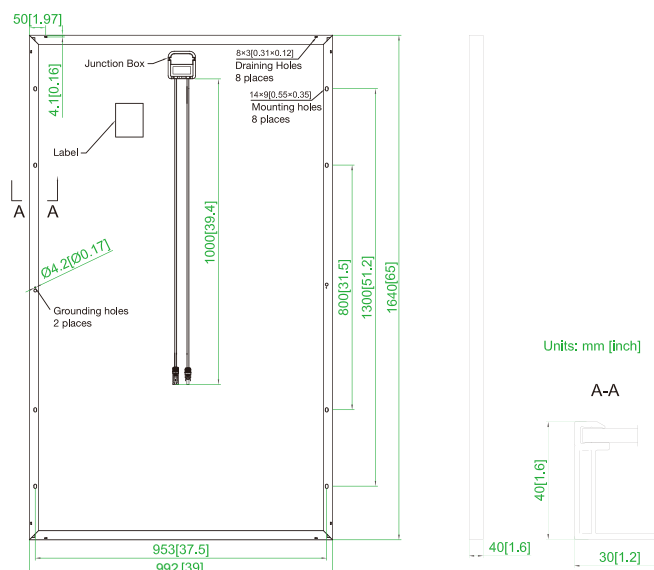
Mechanical Parameters

Cell (mm)	Poly 156x156
Weight (kg)	18 (approx)
Glass Thickness	4/3.2mm
Dimensions (LxWxH) (mm)	1640×992×35
Cable Cross Section Size (mm ²)	4
No. of Cells and Connections	60 (6×10)
Junction Box	IP67
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 ²)
Maximum Static Load, Back (e.g., wind)	2400Pa (50 lb/ft ²)
NOCT	45±2°C
Application Class	Class A

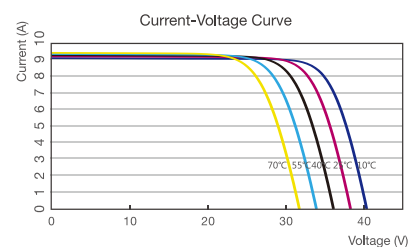
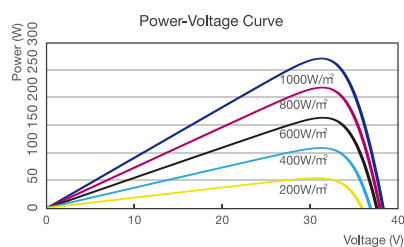
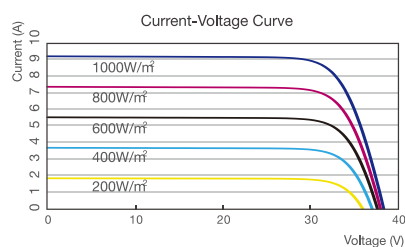
Engineering Drawings



Electrical Parameters

Module	TS-250P-60	TS-260P-60	TS-270P-60
Rated Maximum Power at STC (W)	250	260	270
Open Circuit Voltage (Voc/V)	36.90	37.90	37.95
Maximum Power Voltage (Vmp/V)	30.68	30.92	31.61
Short Circuit Current (Isc/A)	9.03	9.15	9.17
Maximum Power Current (Imp/A)	8.15	8.41	8.54
Module Efficiency [%]	15.37	15.98	16.60
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 ² , Cell Temperature 25°C, Air Mass 1.5		

I-V Curve



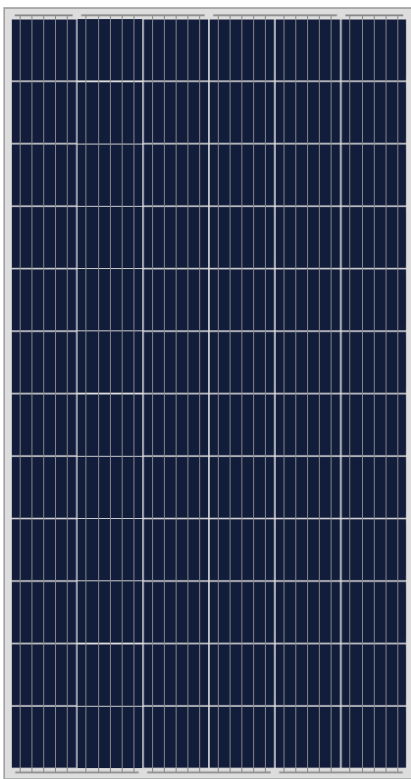
+0086-150-8881-7303



sales@tracksunsolar.cn

www.tracksunsolar.cn





**TracksunSolar,
For Our Future!**

SUPER QUALITY
HIGH EFFICIENCY
STRONG POWER



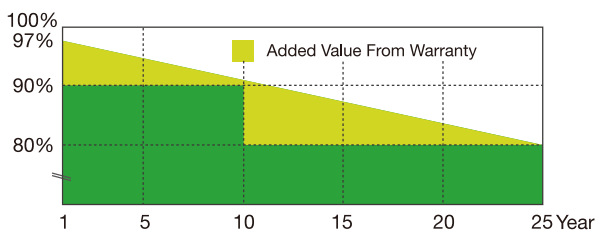
TS-350P-72/Polycrystalline 72 cells 335w-355w

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 NORD



+0086-150-8881-7303



sales@tracksunsolar.cn

www.tracksunsolar.cn



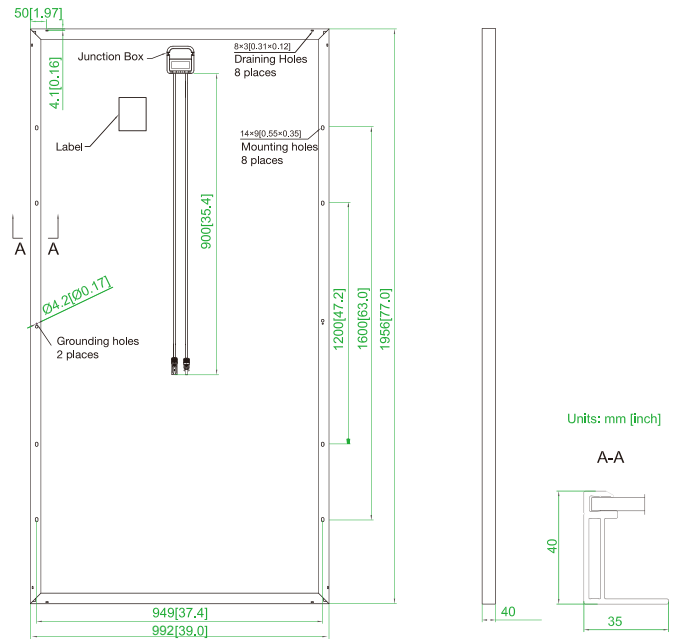
Mechanical Parameters

Cell (mm)	Poly 156x156
Weight (kg)	21 (approx)
Glass Thickness	4/3.2mm
Dimensions (L×W×H) (mm)	1956×992×40
Cable Cross Section Size (mm ²)	4
No. of Cells and Connections	72 (6×12)
Junction Box	IP67
Connector	MC4 Compatible
Packaging Configuration	23 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 ²)
Maximum Static Load, Back (e.g., wind)	2400Pa (50 lb/ft ²)
NOCT	45±2°C
Application Class	Class A

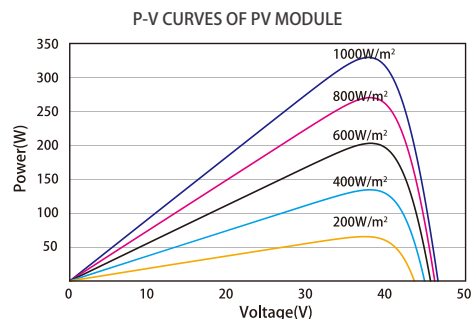
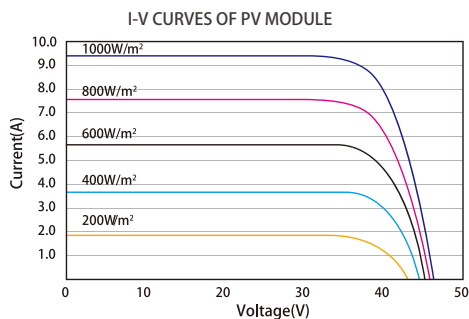
Engineering Drawings

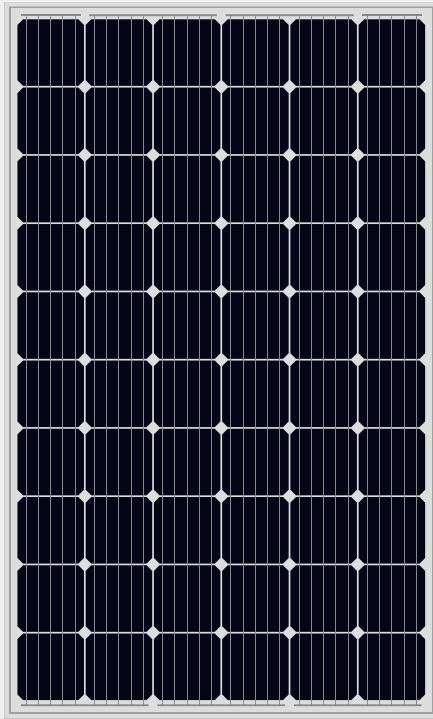


Electrical Parameters

Module	TS-335P-72	TS-340P-72	TS-345P-72	TS-350P-72	TS-355P-72
Peak Power Watts-P _{MAX} (Wp)*	335	340	345	350	355
Power Output Tolerance-P _{MAX} (W)			0 ~ +5		
Maximum Power Voltage-V _{MPP} (V)	37.9	38.2	38.4	38.5	38.7
Maximum Power Current-I _{MPP} (A)	8.84	8.90	9.00	9.09	9.17
Open Circuit Voltage-V _{OC} (V)	46.3	46.5	46.7	46.9	47.0
Short Circuit Current-I _{SC} (A)	9.36	9.45	9.50	9.60	9.69
Module Efficiency η _m (%)	17.3	17.5	17.8	18.0	18.3
Temperature Coefficient of I _{sc} (αI _{sc})			+0.058%/°C		
Temperature Coefficient of V _{oc} (βV _{oc})			-0.330%/°C		
Temperature Coefficient of P _{max} (γP _{mp})			-0.410%/°C		
STC	Irradiance 1000W/m ² , Cell Temperature 25°C, Air Mass 1.5				

I-V Curve





**TracksunSolar,
For Our Future!**

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



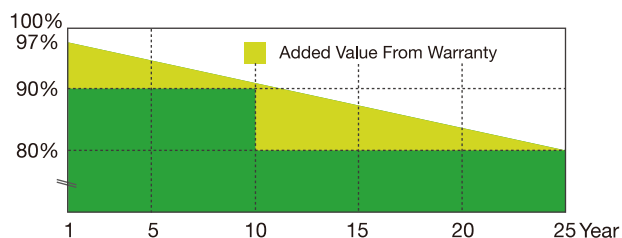
TS-295M-60/ Monocrystalline 60 cells

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



Monocrystalline 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 NORD



+0086-150-8881-7303



sales@tracksunsolar.cn

www.tracksunsolar.cn



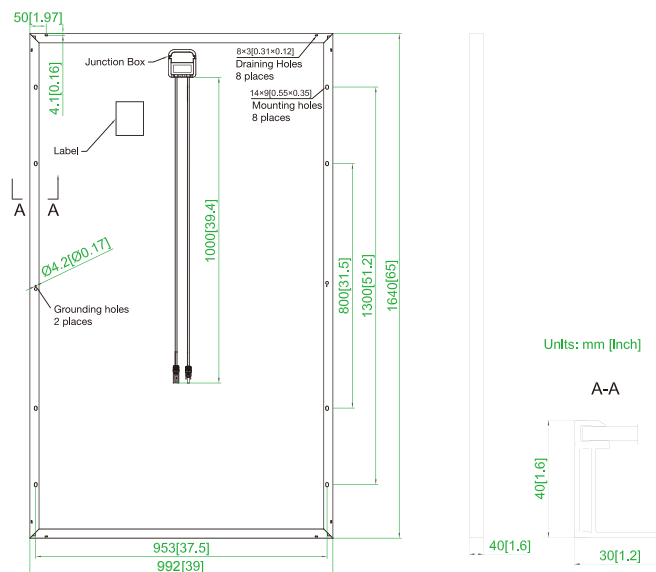
Mechanical Parameters

Cell (mm)	Mono 156x156
Weight (kg)	18 (approx)
Glass Thickness	4/3.2mm
Dimensions (L×W×H) (mm)	1640*992*35
Cable Cross Section Size (mm ²)	4
No. of Cells and Connections	60 (6×10)
Junction Box	IP67
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 ²)
Maximum Static Load, Back (e.g., wind)	2400Pa (50 lb/ft ²)
NOCT	45±2°C
Application Class	Class A

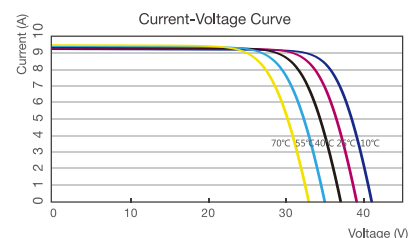
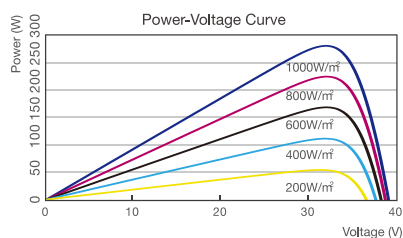
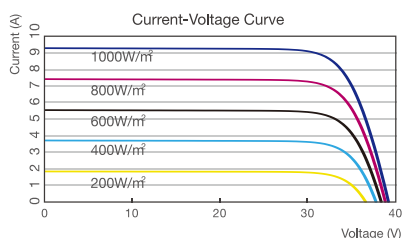
Engineering Drawings



Electrical Parameters

Module	TS-275M-60	TS-280M-60	TS-285M-60	TS-290M-60	TS-295M-60
Rated Maximum Power at STC (W)	275	280	285	290	295
Open Circuit Voltage (Voc/V)	38.86	39.05	39.25	38.85	39.64
Maximum Power Voltage (Vmp/V)	31.51	31.86	31.85	32.07	32.29
Short Circuit Current (Isc/A)	9.27	9.36	9.45	9.56	9.67
Maximum Power Current (Imp/A)	8.72	8.84	8.97	9.11	9.23
Module Efficiency [%]	16.82	17.12	17.43	17.74	18.04
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 ² , Cell Temperature 25°C, Air Mass 1.5				

I-V Curve



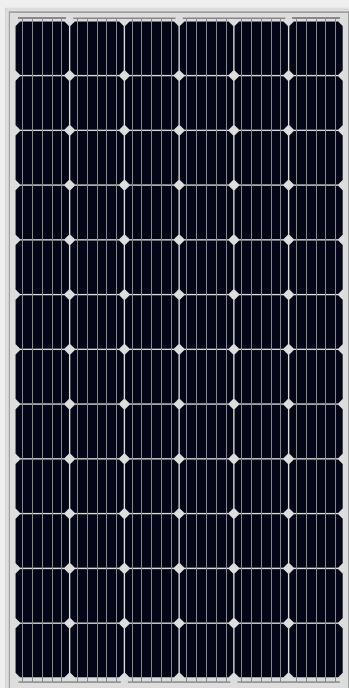
+0086-150-8881-7303



sales@tracksunsolar.cn

www.tracksunsolar.cn





**TracksunSolar,
For Our Future!**

SUPER QUALITY
HIGH EFFICIENCY
STRONG POWER



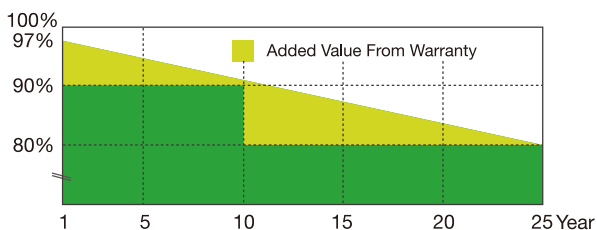
TS-330M-72/Monocrystalline 72 cells 300w-350w

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



Monocrystalline 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 NORD



+0086-150-8881-7303



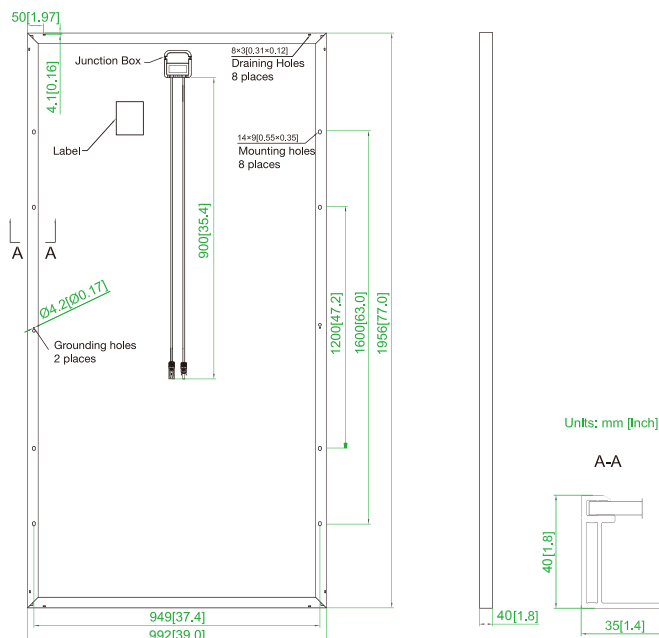
sales@tracksunsolar.cn

www.tracksunsolar.cn

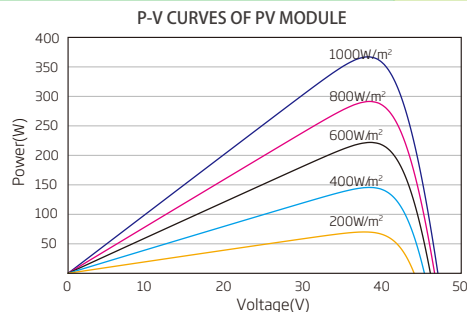
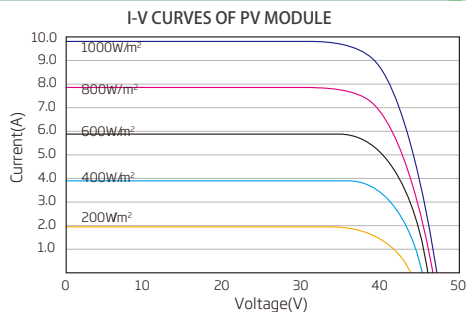


Cell (mm)	Mono 156x156
Weight (kg)	21 (approx)
Glass Thickness	4 / 3.2mm
Dimensions (LxWxH) (mm)	1956x992x40
Cable Cross Section Size (mm ²)	4
No. of Cells and Connections	72 (6x12)
Junction Box	IP67
Connector	MC4 Compatible
Packaging Configuration	23 Per Pallet

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 ²)
Maximum Static Load, Back (e.g., wind)	2400Pa (50 lb/ft ²)
NOCT	45±2°C
Application Class	Class A



Module	TS-300M-72	TS-310M-72	TS-320M-72	TS-330M-72	TS-340M-72	TS-350M-72
Peak Power Watts-P _{MAX} (Wp)*	300	310	320	330	340	350
Power Output Tolerance-P _{MAX} (W)	0 ~ +5					
Maximum Power Voltage-V _{MPP} (V)	37.24	37.54	37.83	37.87	38.45	38.98
Maximum Power Current-I _{MPP} (A)	8.06	8.26	8.46	8.72	8.85	8.98
Open Circuit Voltage-V _{OC} (V)	44.66	44.76	44.84	44.88	46.37	46.64
Short Circuit Current-I _{SC} (A)	9.18	9.23	9.52	9.80	9.85	9.88
Module Efficiency η _m (%)	15.88	15.98	16.49	17.01	17.52	18.00
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/m², Cell Temperature 25°C, Air Mass 1.5					



PROJECTS



Location : Costa Rican Solar Project
Capacity : 45KW



Location : Brazil Jackwitz Farm
Capacity : 60KW



Location : Caxias do sul, RS-Brazil
Capacity : 1.4MW



Location : USA Roof Top PV System
Capacity : 70 KW



Location : Gansu, China
Capacity : 500KW



Location : Anyuan, China
Capacity : 3.2MW

PROJECTS



Location : Zhejiang finishing farm, China
Capacity : 1.2MW



Location : Fuyang, China
Capacity : 2MW



Location : Kuala Lumpur, China
Capacity : 20KW



Location : Philippines
Capacity : 5MW



Location : Hubei, China
Capacity : 100KW



Location : Korea
Capacity : 100KW

PROJECTS



Location : Ningbo, China
Capacity : 12KW



Location : Tibet, China
Capacity : 10MW



Location : Shanghai, China
Capacity : 2MW



Location : Germany
Capacity : 2MW



Location : Munich, Germany
Capacity : 5.5MW



Location : Gediz ,Turkey
Capacity : 8MW



Track Sun Solar Energy Technology Co.,Limited

Ningbo Track Sun Solar Energy Co.,Ltd

China Main Office:

Tel:0086-574-55665720 Fax:0086-574-55665722

Address:Block E,No.55,Zhangwang Road, Zhanqi Town,Yinzhou District,Ningbo, Zhejiang, China.

Web: www.tracksunsolar.cn

Email:sales@tracksunsolar.cn

Whatsapp/wechat:008615088817303

German Office:

Add: Karlstr.1,D-74405 Gaildorf, Germany

Tel: +49-7971-21245

Fax: +49-7971-910813

E-mail:germany@tracksunsolar.cn

Wechat

