TANFON

N Type Mono Solar Cell

TFD-B108

410W~450W

- Excellent Outdoor Power Generation Performance
- High Quality Long-term Reliability

12 years' product material and process warranty

25 Years' power output warranty

Wonderful Quality Assurance System& Production Certification

IEC61215,IEC61730,UL61730

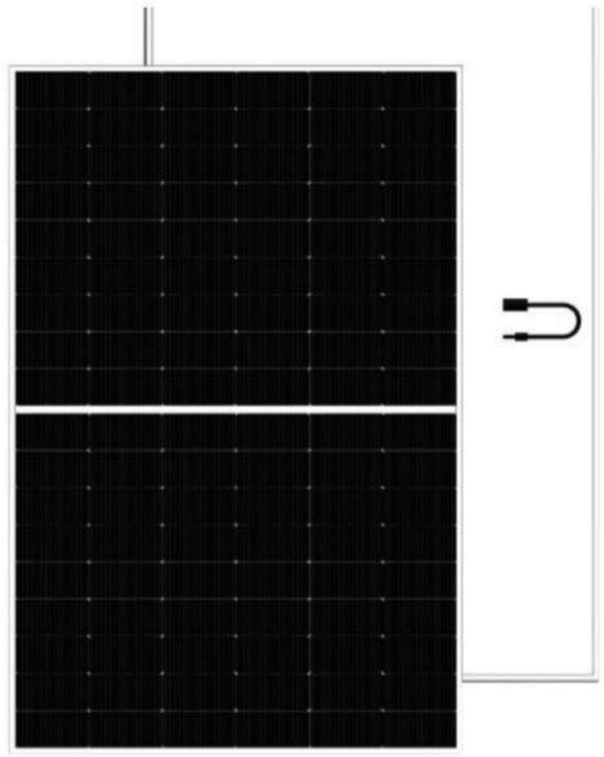
ISO9001:2015:ISO Quality Management System

TUV/CE/CB/CQC and other product certification

Data sheet under STC Condition

Component model	TFD-B108 410W		TFD-B108 420W		TFD-B108 430W		TFD-B108 440W		TFD-B108 450W	
Test conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power (W)	410	306.3	420	313.7	430	321.2	440	328.7	450	336.2
Open circuit voltage(V)	37.89	35.62	38.00	35.72	38.22	35.92	38.66	36.34	39.04	36.69
Short-circuit current(A)	13.52	11.04	13.96	11.22	14.20	11.42	14.44	11.61	14.67	11.79
Max Voltage(V)	31.35	29.12	31.60	29.35	31.80	29.54	32.00	29.72	32.21	29.92
Maximum current(A)	13.08	10.51	13.29	10.69	13.52	10.87	13.75	11.06	13.97	11.23
Module efficiency(%)	21.00		21.50		22.01		22.52		23.03	

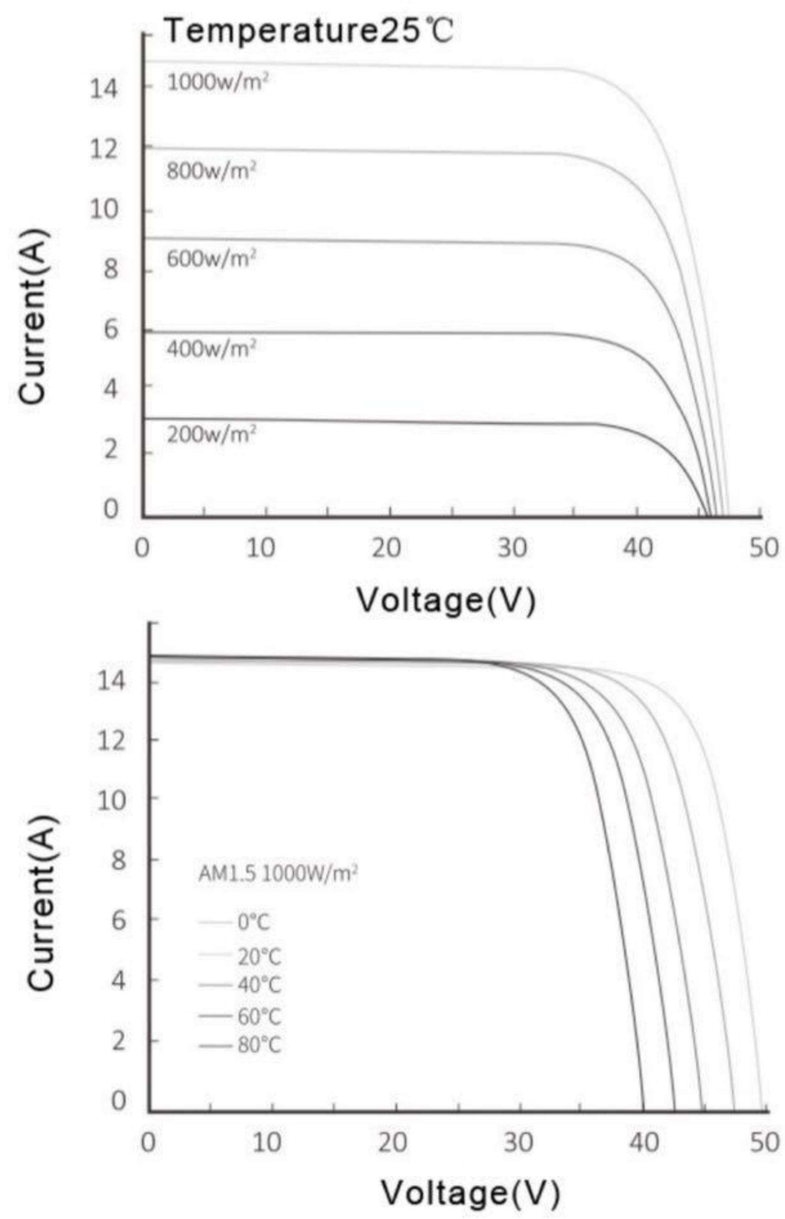
STC: Irradiance 1000W/m2,Module temperature 25℃, AM=1.5
STC: Irradiance 800W/m2,wind speed:1m/s, Module temperature20℃
NOCT: Irradiance: 800W/m2, Module temperature: 20℃, AM=1.5
Tolerance of Pm:0~+5W



Mechanical Parameters

Cell	N Type Mono-crystalline silicon solar cells
Cell Size	182mm*91mm
Cell Quantity	108Pcs(6*18)
Dimension of module	1723mm×1134mm×30mm
Weight	20.5kg
Junction Box	Separated Junction Box with 3 diodes
Output Cables	$4mm^2$
Max. Static LDS (Front)	5400kpa
Max. Static LDS (Back)	2400kpa
Hail Test	Diameter: 25mm, with speed: 23m/s
Glass	3.2mm
Package	35PCS/Package/Pallet 420PCS/20' GQ (2pcs/carton) 936pcs/40' HQ
Protection Grade	Class II
Fire Protection Class	IEC Class C

I-V Curve



Rated Parameters

Short-circuit current temperature coefficient	(0.065±0.015) %/°C
Open-circuit voltage temperature coefficient	(80±10) mV/°C
Peak power temperature coefficient	-(0.5±0.05) %/°C
NOCT (Air 20°C; Sun 0.8kW/m wind 1m/s)	47±2°C
Operating temperature	-40°C to 85°C
Maximum system voltage	1500V DC
Power tolerance	±1%
Maximum Fuse Current	25A

Statement: With the technical progress and product update, the later component product technical parameters and All technical parameters contained in this specification may be deviated, Xintai Lai has the right Adjust the technical parameters at any time without notifying the customer, the technical regulation The final interpretation of the lattice book belongs to Shandong Xintailai Photoelectric Co., LTD.

TANFON

N Type Mono Solar Cell

TFD-B126

480W~520W

- Excellent Outdoor Power Generation Performance
- High Quality Long-term Reliability

12 years' product material and process warranty

25 Years' power output warranty

Wonderful Quality Assurance System& Production Certification

IEC61215,IEC61730,UL61730

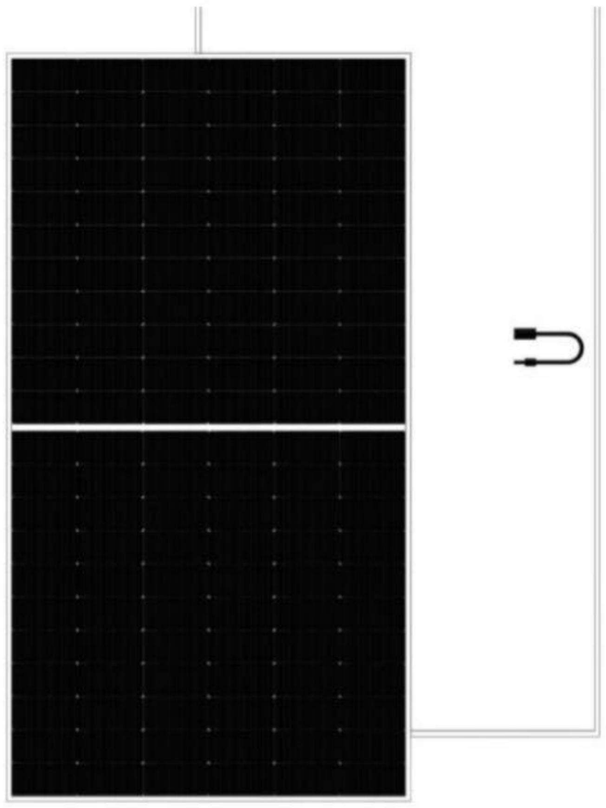
ISO9001:2015:ISO Quality Management System

TUV/CE/CB/CQC and other product certification

Data sheet under STC Condition

Component model	TFD-B126 480W		TFD-B126 485W		TFD-B126 490W		TFD-B126 495W		TFD-B126 500W		TFD-B126 510W		TFD-B126 520W	
Test conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power (W)	480	358.5	485	362.3	490	366.0	495	369.7	500	373.5	510	380.97	520	388.44
Open circuit voltage(V)	42.32	39.78	42.42	39.87	42.52	39.97	42.62	40.06	42.82	40.25	43.02	40.06	43.22	40.25
Short-circuit current(A)	13.59	11.09	13.90	11.17	13.96	11.23	14.09	11.32	14.20	11.41	14.39	11.57	14.56	11.74
Max Voltage(V)	36.54	33.94	36.64	34.04	36.84	34.22	36.90	34.28	37.00	34.37	37.20	34.56	37.48	34.72
Maximum current(A)	13.14	10.56	13.24	10.64	13.30	10.70	13.42	10.78	13.52	10.86	13.70	11.02	13.87	11.19
Module efficiency(%)	20.21		20.42		20.64		20.85		21.06		21.48		21.89	

STC: Irradiance 1000W/m2,Module temperature 25℃，AM=1.5
STC: Irradiance 800W/m2,wind speed:1m/s，Module temperature20℃
NOCT： Irradiance: 800W/m2, Module temperature: 20℃， AM=1.5
Tolerance of Pm:0~+5W



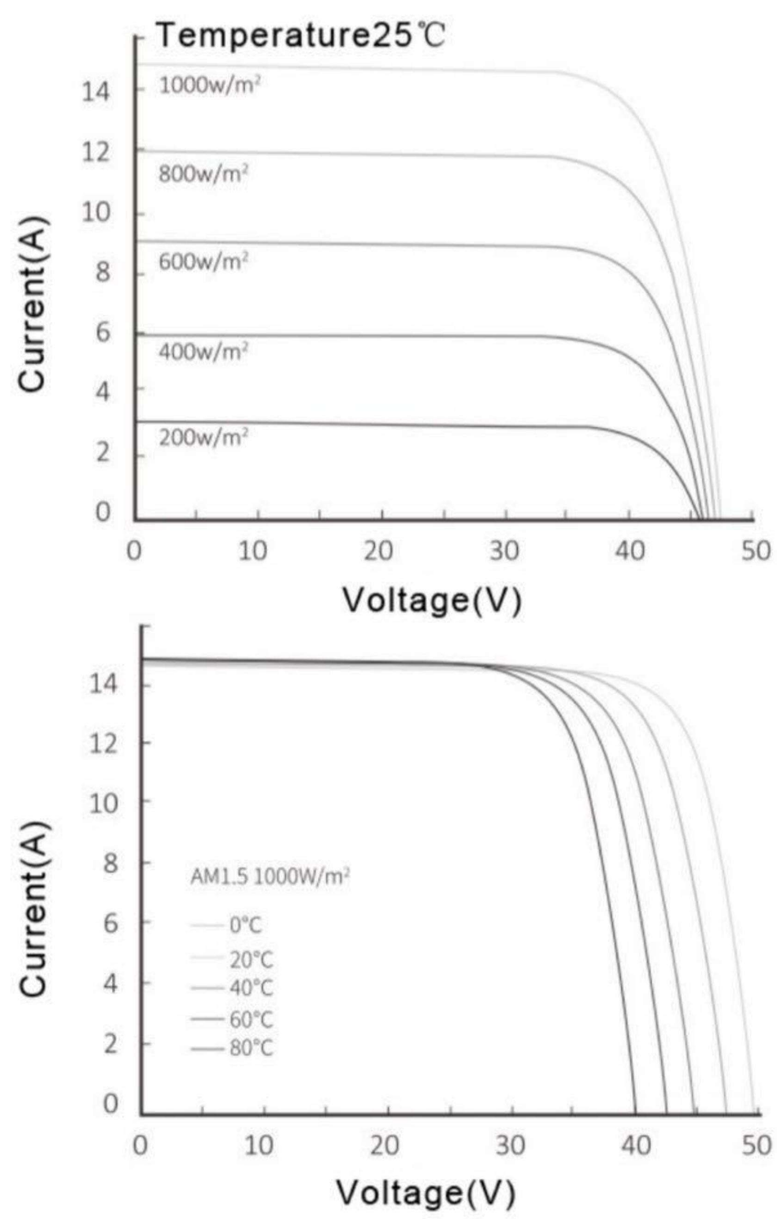
Mechanical Parameters

Cell	N Type Mono-crystalline silicon solar cells
Cell Size	182*91
Cell Quantity	126Pcs (6*21)
Dimension of module	2094mm×1134mm×30mm
Weight	24.5kg
Junction Box	Separated Junction Box with 3 diodes
Output Cables	$4mm^2$
Max. Static LDS (Front)	5400kpa
Max. Static LDS (Back)	2400kpa
Hail Test	Diameter: 25mm, with speed: 23m/s
Glass	3.2mm
Package	35PCS/Package/Pallet 380PCS/20' GQ (2pcs/carton) 770pcs/40' HQ
Protection Grade	Class II
Fire Protection Class	IEC Class C

Rated Parameters

Short-circuit current temperature coefficient	(0.065±0.015) %/°C
Open-circuit voltage temperature coefficient	(80±10) mV/°C
Peak power temperature coefficient	-(0.5±0.05) %/°C
NOCT (Air 20°C; Sun 0.8kW/m wind 1m/s)	47±2°C
Operating temperature	-40°C to 85°C
Maximum system voltage	1500V DC
Power tolerance	±1%
Maximum Fuse Current	25A

I-VCurve



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TANFON

N Type Mono Solar Cell

TFD-B144

550W~600W

- Excellent Outdoor Power Generation Performance
- High Quality Long-term Reliability

12 years' product material and process warranty

25 Years' power output warranty

Wonderful Quality Assurance System& Production Certification

IEC61215,IEC61730,UL61730

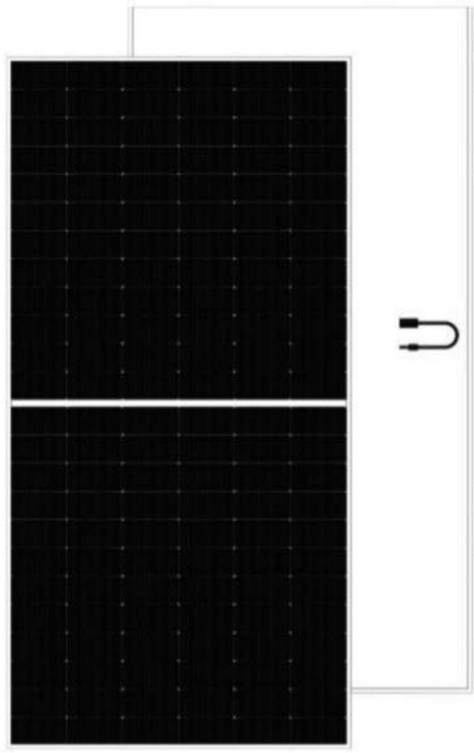
ISO9001:2015:ISO Quality Management System

TUV/CE/CB/CQC and other product certification

Data sheet under Condition

Component model	TFD-B144 550W		TFD-B144 560W		TFD-B144 570W		TFD-B144 580W		TFD-B144 590W		TFD-B144 600W	
Test conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power (W)	550	411.1	560	418.6	570	425.8	580	433.3	590	440.7	600	448.2
Open circuit voltage(V)	49.80	46.82	50.10	47.11	51.19	48.11	51.41	48.32	51.45	48.36	51.54	48.44
Short-circuit current(A)	13.98	11.31	14.10	11.40	14.05	11.19	14.22	11.33	14.30	11.49	14.50	11.66
Max Voltage(V)	41.95	38.97	42.25	39.25	43.00	39.94	43.22	40.15	43.32	40.24	43.44	40.35
Maximum current(A)	13.12	10.56	13.26	10.67	13.26	10.66	13.42	10.79	13.62	10.95	13.81	11.10
Module efficiency(%)	21.3		21.7		22.06		22.44		22.83		23.22	

STC: Irradiance 1000W/m2,Module temperature 25℃, AM=1.5
STC: Irradiance 800W/m2,wind speed:1m/s, Module temperature20℃
NOCT: Irradiance: 800W/m2, Module temperature: 20℃, AM=1.5
Tolerance of Pm:0~+5W



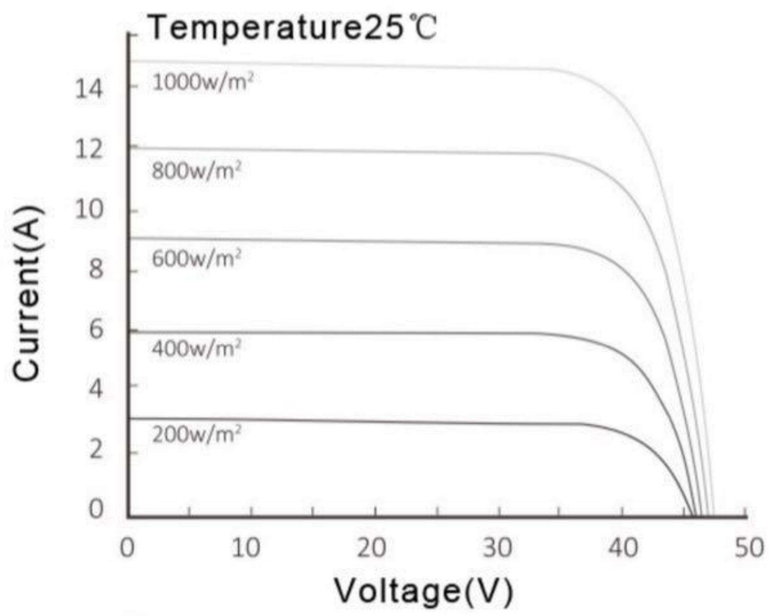
Mechanical Parameters

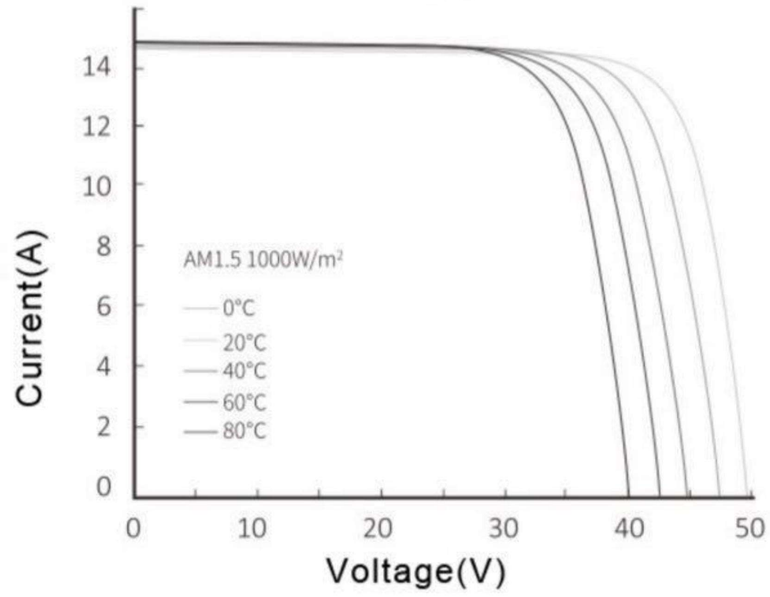
Cell	N Type Mono-crystalline silicon solar cells
Cell Size	182mm*91mm
Cell Quantity	144Pcs(6*24)
Dimension of module	2279mm×1134mm×30mm
Weight	27.5kg
Junction Box	Separated Junction Box with 3 diodes
Output Cables	$4mm^2$
Max. Static LDS (Front)	5400kpa
Max. Static LDS (Back)	2400kpa
Hail Test	Diameter: 25mm, with speed: 23m/s
Glass	3.2mm
Package	35PCS/Package/Pallet 350PCS/20' GQ (2pcs/carton) 720pcs/40' HQ
Protection Grade	Class II
Fire Protection Class	IEC Class C

Rated Parameters

Short-circuit current temperature coefficient	(0.065±0.015) %/°C
Open-circuit voltage temperature coefficient	(80±10) mV/°C
Peak power temperature coefficient	-(0.5±0.05) %/°C
NOCT (Air 20°C; Sun 0.8kW/m wind 1m/s)	47±2°C
Operating temperature	-40°C to 85°C
Maximum system voltage	1500V DC
Power tolerance	±1%
Maximum Fuse Current	25A

I-VCurve





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