



N-type Half-cell Bifacial Module (72)

TW550~570MBGT

M10 TNC-144-D

PRODUCT FEATURES



High Power Output
Low LCOE



Maximum Power
570W*



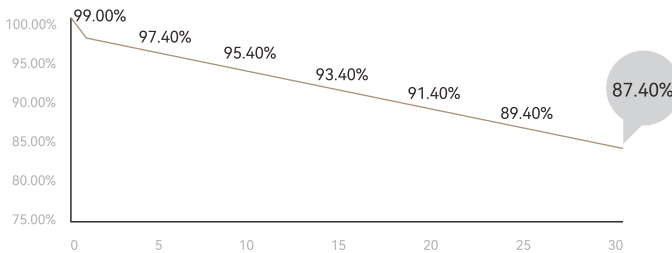
High Reliability



Low LID

POWER WARRANTY

1st year <1%, 0.4% power degradation per year from 2 to 30 years



12-year warranty for materials



30-year warranty for linear power output

PRODUCT CERTIFICATIONS

ISO9001: 2015/Quality Management System

ISO14001: 2015/Environment Management System

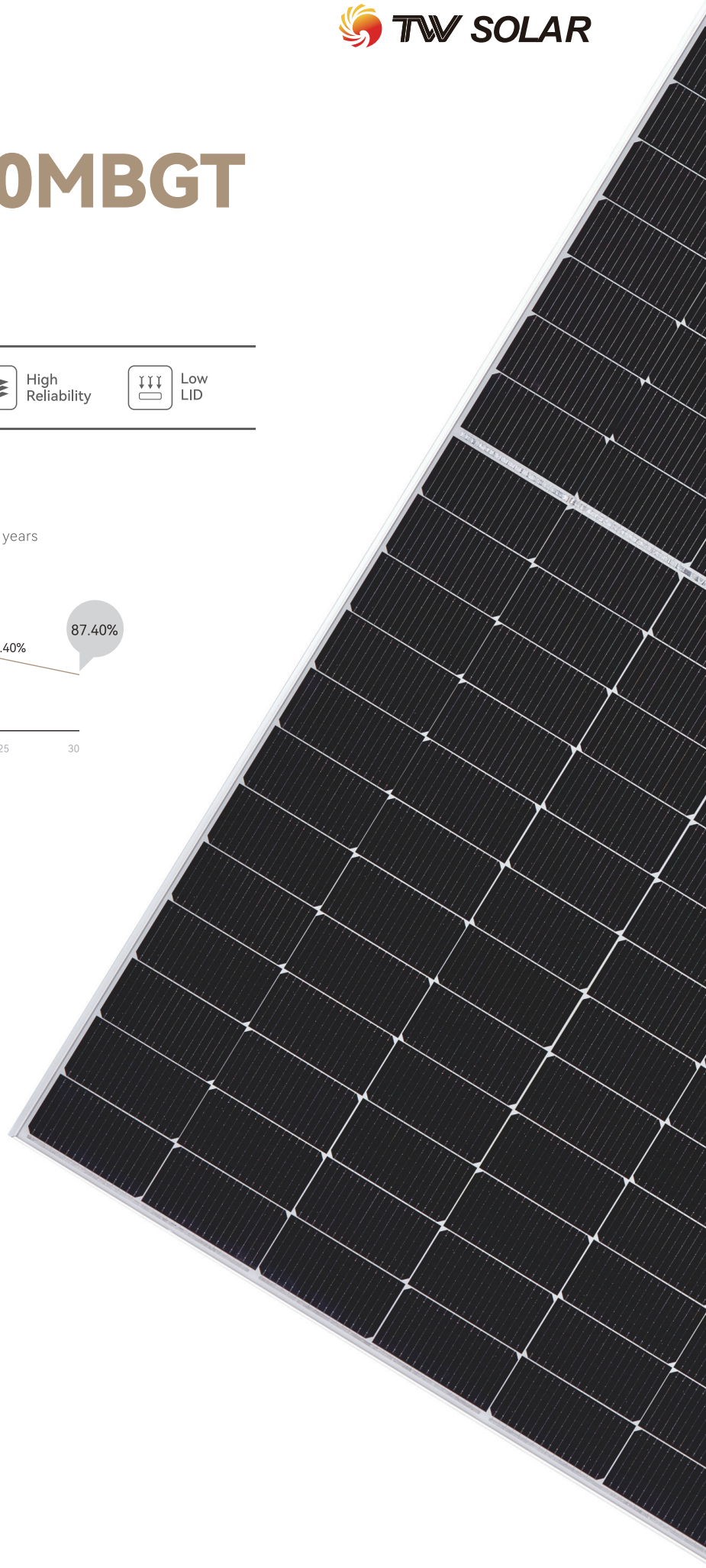
ISO45001: 2018/Occupational Health and Safety



Front



Side



Electrical Characteristics (STC)

Module type: TW***MBGT-144-D

Maximum power: Pm (W)	550	555	560	565	570
Open circuit voltage: Voc (V)	50.27	50.47	50.67	50.87	51.07
Short circuit current: Isc (A)	14.01	14.05	14.09	14.13	14.17
Voltage at maximum power point: Vm (V)	41.57	41.86	42.14	42.42	42.70
Current at maximum power point: Im (A)	13.23	13.27	13.31	13.35	13.39
Module efficiency: η (%)	21.3	21.5	21.7	21.9	22.1

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass1.5, Measuring tolerance: ±3%

Electrical Characteristics (NMOT)

Maximum power: Pm (W)	414.0	417.0	421.0	425.0	429.0
Open circuit voltage: Voc (V)	47.75	47.94	48.13	48.32	48.51
Short circuit current: Isc (A)	11.31	11.36	11.41	11.46	11.50
Voltage at maximum power point: Vm (V)	39.13	39.26	39.39	39.52	39.65
Current at maximum power point: Im (A)	10.57	10.63	10.69	10.75	10.81

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

Electrical characteristics with different power bin(reference to different Irradiance ratio)

5%	Maximum power: Pm (W)	577.5	582.8	588.0	593.3	598.5
	Module efficiency: η (%)	22.4	22.6	22.8	23.0	23.2
15%	Maximum power: Pm (W)	632.5	638.3	644.0	649.8	655.5
	Module efficiency: η (%)	24.5	24.7	24.9	25.2	25.4
25%	Maximum power: Pm (W)	687.5	693.8	700.0	706.3	712.5
	Module efficiency: η (%)	26.6	26.9	27.1	27.3	27.6

Mechanical Parameters

Cells	N-TNC
Orientation	144 (6×24)
Size	2278±2×1134±2×35mm
Weight	32.7kg
Front Glass	2.0mm high transmittance, AR coated heat strengthened glass
Rear Glass	2.0mm high transmittance, heat strengthened glass
Frame	Anodized aluminum alloy frame
Junction Box	IP68, 3 diodes
Cable	4.0mm ² , Positive: 280mm, Negative: 280mm, length can be customized
Connector	MC4 Compatible or MC4 original
Wind/Snow Load	2400Pa/5400Pa
Packaging	31pcs per pallet, 620pcs per 40'HC

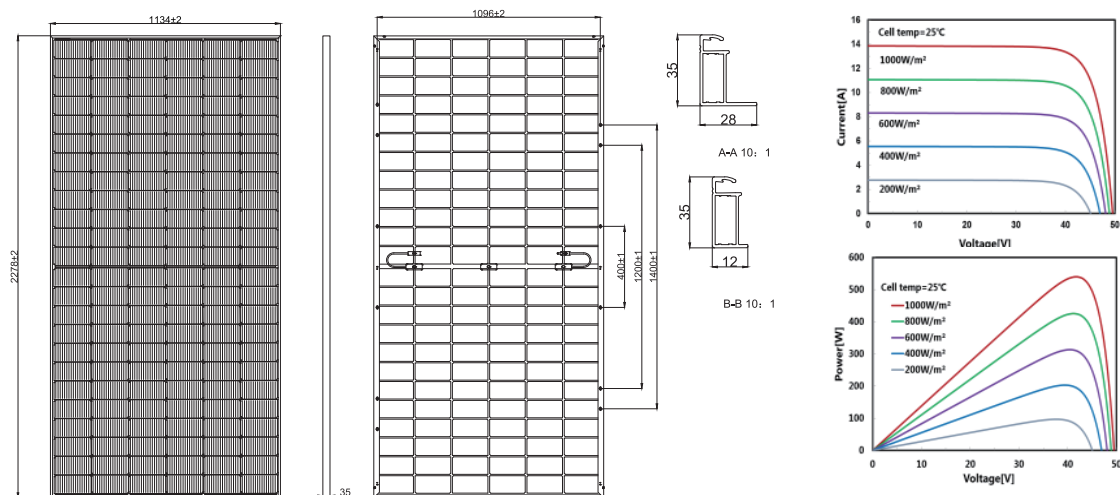
Operating Parameters

Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	30A
Power Output Tolerance	0~+5W
Bifaciality	80±5%

Temperature Ratings

Temperature Coefficient (Pmax)	-0.30%/°C
Temperature Coefficient (Voc)	-0.25%/°C
Temperature Coefficient (Isc)	0.04%/°C
NMOT	43±2°C

Drawings (Unit: mm)



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