



TWMND-72HD560-580W

N-type Half-cell Bifacial Module (72)

PRODUCT FEATURES



High Power Output
Low LCOE



Maximum Power
580W+



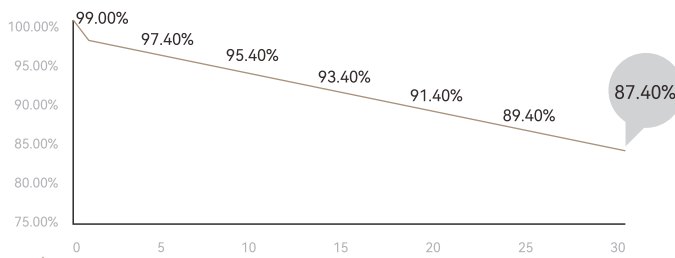
High
Reliability



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

MANAGEMENT SYSTEM AND PRODUCT CERTIFICATION

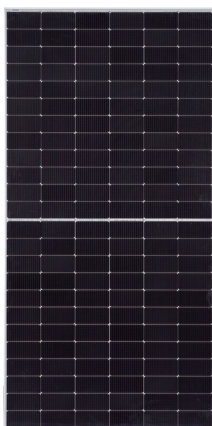
ISO9001: 2015/Quality Management System

ISO14001: 2015/Environment Management System

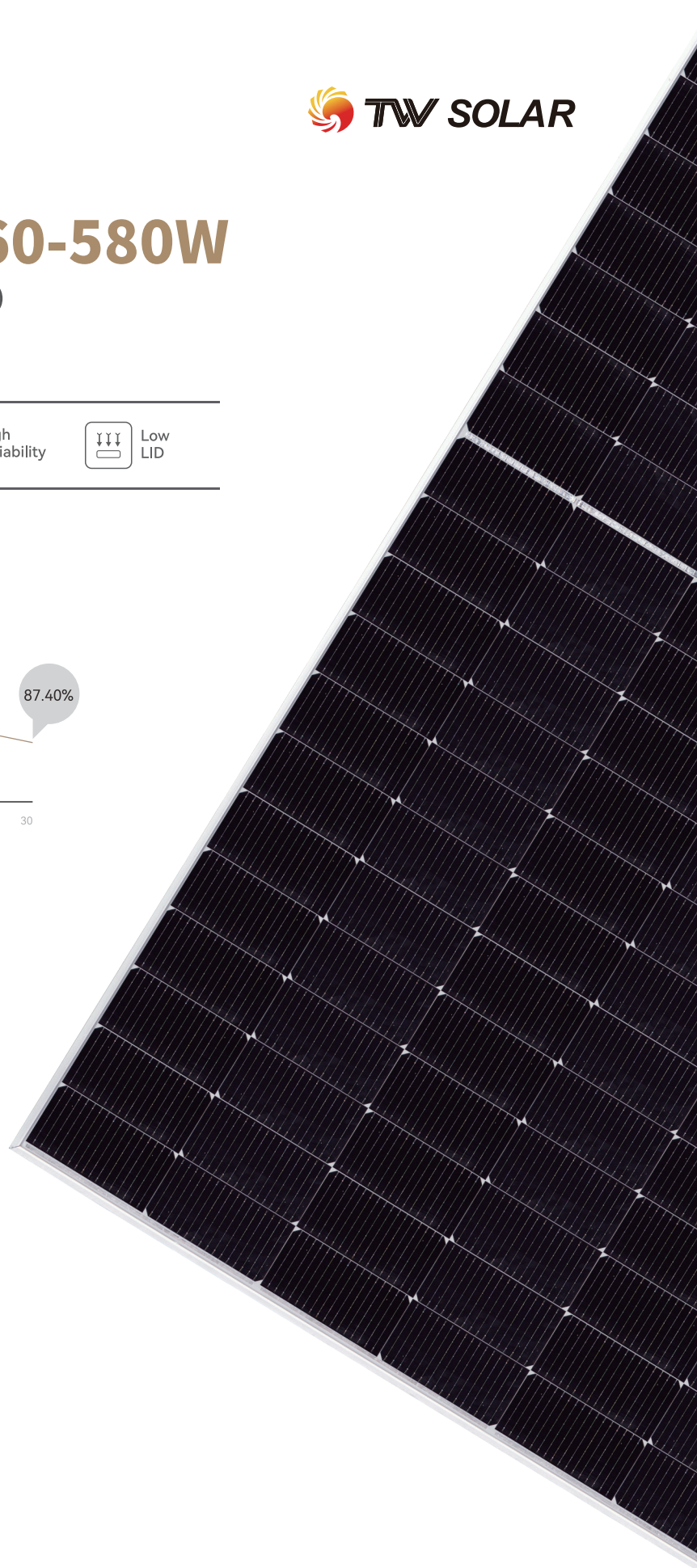
ISO45001: 2018/Occupational Health and Safety Management System



Front



Side



Electrical Characteristics (STC)

Module Type: TWMND-72HDXXX					
Maximum Power: Pmax [W]	560	565	570	575	580
Open Circuit Voltage: Voc [V]	50.84	51.04	51.24	51.44	51.64
Short Circuit Current: Isc [A]	14.13	14.17	14.21	14.25	14.29
Voltage at Maximum Power: Vmp [V]	42.48	42.68	42.88	43.08	43.28
Current at Maximum Power: Imp [A]	13.18	13.24	13.29	13.35	13.40
Module Efficiency: η [%]	21.7	21.9	22.1	22.3	22.5
STC: Irradiance 1000W/m ² , Cell Temperature 25°C, Air Mass1.5, Measuring Tolerance: ±3%					

Electrical Characteristics (NMOT)

Maximum Power: Pmax [W]	421.1	424.8	428.6	432.4	436.1
Open Circuit Voltage: Voc [V]	48.29	48.48	48.67	48.86	49.05
Short Circuit Current: Isc [A]	11.42	11.47	11.52	11.56	11.60
Voltage at Maximum Power: Vmp [V]	39.84	39.89	39.95	40.00	40.19
Current at Maximum Power: Imp [A]	10.56	10.63	10.70	10.78	10.85
NMOT: Irradiance 800W/m ² , Ambient Temperature 20°C, Air Mass1.5, Wind Speed 1m/s					

Electrical characteristics with different rear side power gain

5%	Maximum Power: Pmax[W]	588.0	593.3	598.5	603.8	609.0
	Module Efficiency: η [%]	22.8	23.0	23.2	23.4	23.6
15%	Maximum Power: Pmax[W]	644.0	649.8	655.5	661.3	667.0
	Module Efficiency: η [%]	24.9	25.2	25.4	25.6	25.8
25%	Maximum Power: Pmax[W]	700.0	706.3	712.5	718.8	725.0
	Module Efficiency: η [%]	27.1	27.3	27.6	27.8	28.1

Temperature Ratings

Temperature Coefficient (Pmax)	-0.30%/°C
Temperature Coefficient (Voc)	-0.25%/°C
Temperature Coefficient (Isc)	0.046%/°C
NMOT	45±2°C

Mechanical Parameters

Cells	TNC
Cell Orientation	144[6X24]
Dimension	2278±2 X1134±2X30mm
Weight	32.7kg
Front Glass	2.0mm high transmittance, AR coated tempered glass
Rear Glass	2.0mm high transmittance, coated tempered glass
Frame	Anodized aluminum alloy frame
Junction Box	IP68, 3 diodes
Output Cable	4.0mm ²
Cable Length	+400mm, -200mm, length can be customized
Wind/Snow Load	2400Pa/5400Pa
Packaging	36pcs per pallet, 720pcs 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
Maximum Bifaciality	80±5%

Drawings (Unit: mm)

