



# TWMND-72HS560-580W

N-type Half-cell Monofacial Module (72)

## PRODUCT FEATURES



High Power Output  
Low LCOE



Maximum Power  
580W+



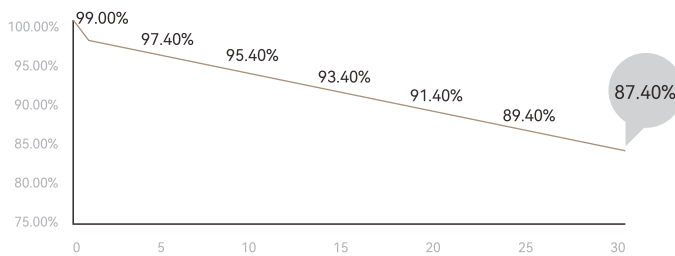
High Reliability



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

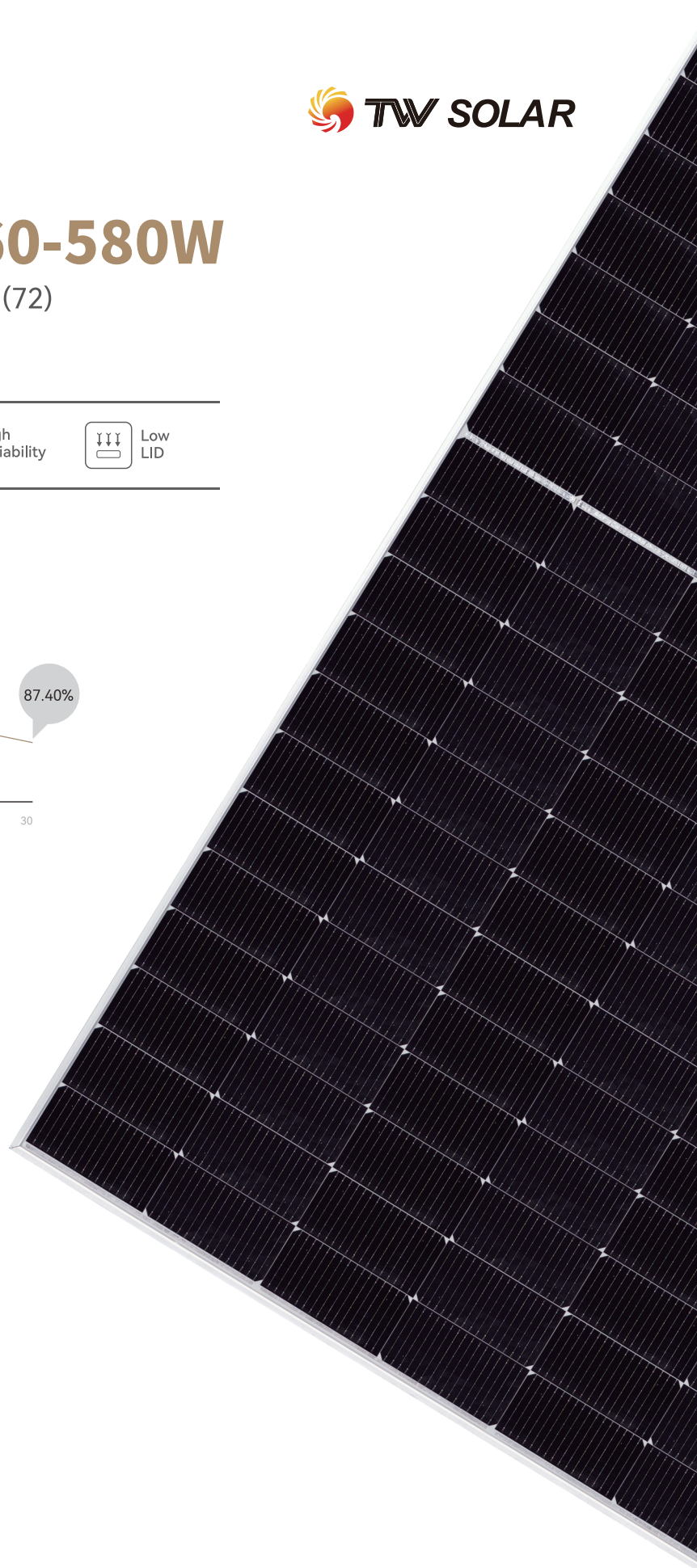
ISO45001: 2018/Occupational Health and Safety Management System



Front



Side



## Electrical Characteristics (STC)

Module Type: TWMND-72HSXXX

Maximum Power: Pmax [W]	560	565	570	575	580
Open Circuit Voltage: Voc [V]	52.00	52.20	52.40	52.60	52.80
Short Circuit Current: Isc [A]	13.34	13.38	13.42	13.46	13.50
Voltage at Maximum Power: Vmp [V]	44.23	44.43	44.63	44.83	45.03
Current at Maximum Power: Imp [A]	12.66	12.72	12.77	12.83	12.88
Module Efficiency: $\eta$ [%]	21.7	21.9	22.1	22.3	22.5

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass1.5, Measuring Tolerance:  $\pm 3\%$

## Electrical Characteristics (NMOT)

Maximum Power: Pmax [W]	423.8	427.6	431.4	435.2	438.9
Open Circuit Voltage: Voc [V]	49.35	49.57	49.80	50.03	50.22
Short Circuit Current: Isc [A]	10.51	10.54	10.56	10.59	10.63
Voltage at Maximum Power: Vmp [V]	42.32	42.60	42.87	43.15	43.34
Current at Maximum Power: Imp [A]	10.01	10.03	10.06	10.08	10.12

NMOT: Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, Air Mass1.5, Wind Speed 1m/s

## Mechanical Parameters

Cells	TNC
Cell Orientation	144[6X24]
Dimension	2278 $\pm 2$ X 1134 $\pm 2$ X2X35mm
Weight	27.8kg
Front Glass	3.2mm high transmittance, AR coated tempered glass
Backsheet	White
Frame	Anodized aluminum alloy frame
Junction Box	IP68, 3 diodes
Output Cable	4.0mm <sup>2</sup>
Cable Length	+400mm, -200mm or $\pm 1400$ mm, length can be customized
Wind/Snow Load	2400Pa/5400Pa
Packaging	31pcs per pallet, 620pcs per 40'HC

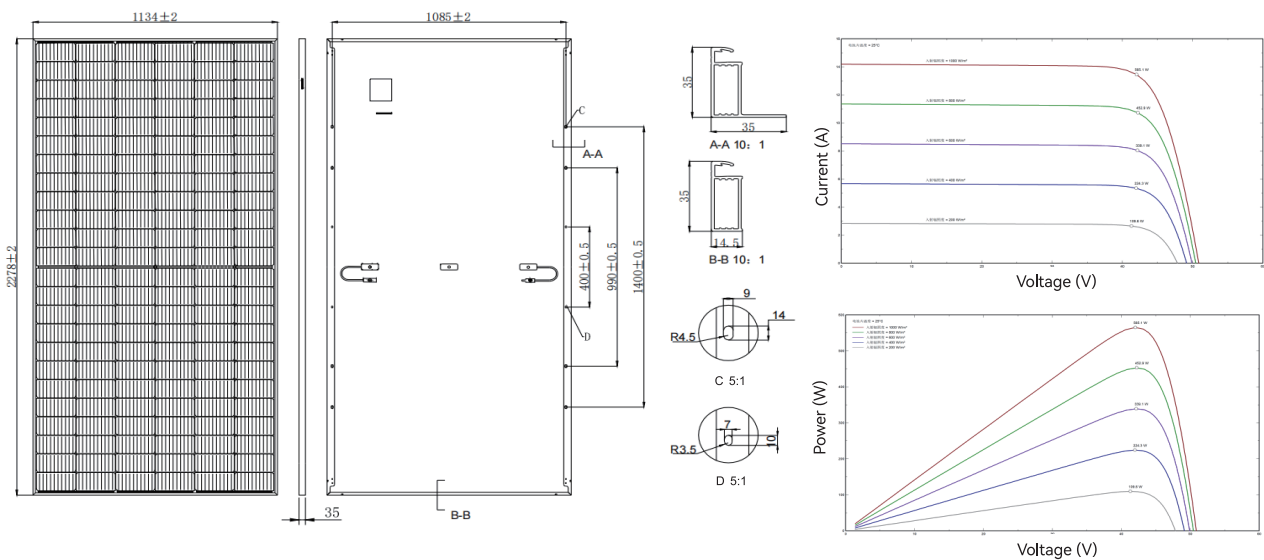
## Operating Parameters

Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	25A
Power Output Tolerance	0~+5W

## Temperature Ratings

Temperature Coefficient (Pmax)	-0.30%/°C
Temperature Coefficient (Voc)	-0.25%/°C
Temperature Coefficient (Isc)	+0.046%/°C
NMOT	45 $\pm 2$ °C

## Drawings (Unit: mm)



Email: sales@tongwei.com Web: www.tongwei.com.cn Add: 888 Changning Avenue, High-tech Zone, Hefei City, Anhui Province

With technological progress and product updates, there may be deviations between the technical parameters of Tongwei's module products and the technical parameters contained in this specification, and Tongwei Solar has the right to adjust the technical parameters at any time without notifying the customer, the final interpretation of the technical specification is vested in Tongwei Solar.