



# TWMND-72HS560-580W

N-type Half-cell Monofacial Module (72)

## PRODUCT FEATURES



High Power Output  
Low LCOE



Maximum Power  
580W+



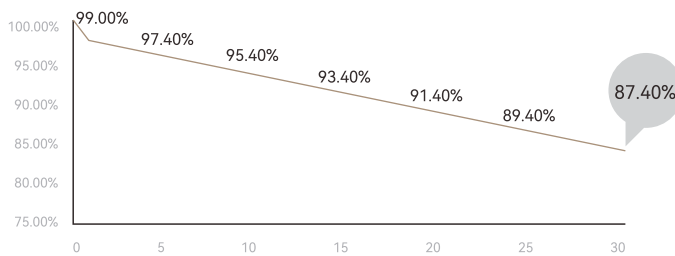
High Reliability



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

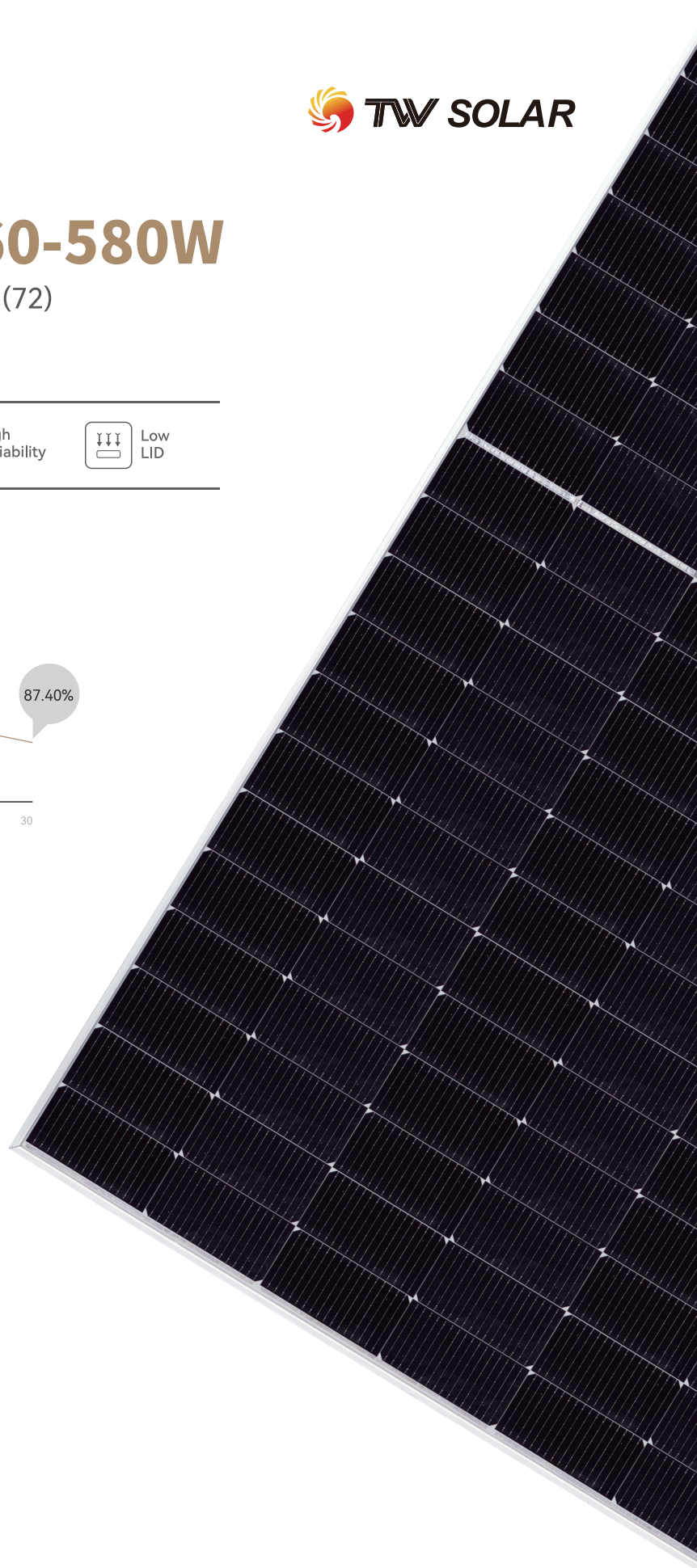
ISO45001: 2018/Occupational Health and Safety Management System



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)

