



TWMPD-72HS545-565W

P-type Half-cell Monofacial Module (72)

PRODUCT FEATURES



High Power Output
Low LCOE



Maximum Power
565W+



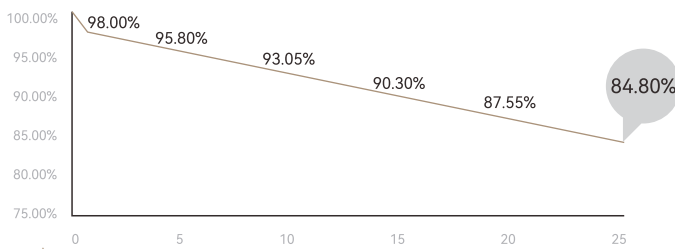
High
Reliability



Low
LID

POWER WARRANTY

1st year <2%, 0.55% power degradation per year from 2 to 25 years



12-year Warranty for Materials



25-year Warranty for Linear Power Output

MANAGEMENT SYSTEM AND PRODUCT CERTIFICATION

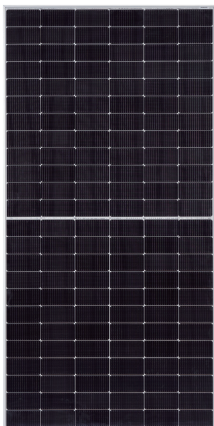
ISO9001: 2015/Quality Management System

ISO14001: 2015/Environment Management System

ISO45001: 2018/Occupational Health and Safety Management System



Front



Rear



Electrical Characteristics (STC)

Module Type: TWMPD-72HSXXX

Maximum Power: Pmax [W]	545	550	555	560	565
Open Circuit Voltage: Voc [V]	49.71	49.91	50.11	50.31	50.51
Short Circuit Current: Isc [A]	13.88	13.92	13.96	14.00	14.04
Voltage at Maximum Power: Vmp [V]	41.05	41.25	41.45	41.65	41.85
Current at Maximum Power: Imp [A]	13.28	13.33	13.39	13.45	13.51
Module Efficiency: η [%]	21.1	21.3	21.5	21.7	21.9

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

Electrical Characteristics (NMOT)

Maximum Power: Pmax [W]	412.4	416.2	420.0	423.8	426.9
Open Circuit Voltage: Voc [V]	47.18	47.40	47.62	47.85	48.07
Short Circuit Current: Isc [A]	10.94	10.97	10.99	11.02	11.05
Voltage at Maximum Power: Vmp [V]	39.28	39.55	39.82	40.09	40.31
Current at Maximum Power: Imp [A]	10.50	10.52	10.55	10.57	10.59

NMOT: Irradiance 800W/m², Ambient Temperature 20°C, Air Mass1.5, Wind Speed 1m/s

Mechanical Parameters

Cells	TPC
Cell Orientation	144[6X24]
Dimension	2278 \pm 2 X1134 \pm 2X35mm
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 ²
Cable Length	+400mm, -200mm or \pm 1400mm, 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)	-0.34%/°C
Temperature Coefficient (Voc)	-0.27%/°C
Temperature Coefficient (Isc)	+0.045%/°C
NMOT	45 \pm 2°C

Drawings (Unit: mm)

