

「TWMPD-54HB395-415W」



Celdas

108



Eficiencia

Hasta 21,3 %



Dimensiones del módulo

1722 X 1134 X 30 mm



Características del módulo

Módulo Full Black



Packaging

36 módulos por pallet,
936 módulos por 40'HC



Tecnología

P-Type



Garantía del producto

12 años de garantía



Garantía del rendimiento

25 años de garantía



TWMPD-54HB395-415W

P-type Half-cell Monofacial Full-black Module (54)

PRODUCT FEATURES



High Power Output
Low LCOE



Maximum Power
415W+



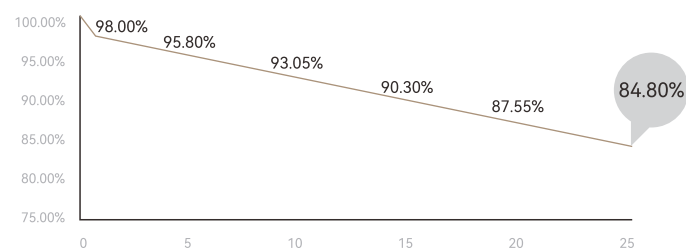
High
Reliability



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

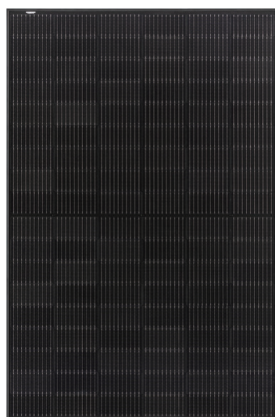
ISO9001: 2015/Quality Management System

ISO14001: 2015/Environment Management System

ISO45001: 2018/Occupational Health and Safety Management System



Front



Rear



Electrical Characteristics (STC)

Module Type: TWMPD-54HBXXX

Maximum Power: Pmax [W]	395	400	405	410	415
Open Circuit Voltage: Voc [V]	36.98	37.07	37.23	37.38	37.53
Short Circuit Current: Isc [A]	13.70	13.79	13.87	13.93	13.99
Voltage at Maximum Power: Vmp [V]	30.84	31.01	31.21	31.40	31.60
Current at Maximum Power: Imp [A]	12.81	12.90	12.98	13.06	13.14
Module Efficiency: η [%]	20.2	20.5	20.7	21.0	21.3

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

Electrical Characteristics (NMOT)

Maximum Power: Pmax [W]	298.2	302.0	306.0	310.0	314.0
Open Circuit Voltage: Voc [V]	34.80	34.88	35.12	35.31	35.50
Short Circuit Current: Isc [A]	10.96	11.03	11.10	11.16	11.22
Voltage at Maximum Power: Vmp [V]	29.10	29.26	29.47	29.68	29.89
Current at Maximum Power: Imp [A]	10.25	10.32	10.38	10.44	10.51

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

Mechanical Parameters

Cells	TPC
Cell Orientation	108[6X18]
Dimension	1722 ± 2 X 1134 ± 2 X 30mm
Weight	20.5kg
Front Glass	3.2mm high transmittance, AR coated tempered glass
Backsheet	Black inside and white outside
Frame	Anodized aluminum alloy black frame
Junction Box	IP68, 3 diodes
Output Cable	4.0mm ²
Cable Length	+400mm, -200mm or ± 1200 mm, length can be customized
Wind/Snow Load	2400Pa/5400Pa
Packaging	36pcs per pallet, 936pcs 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 ± 2 °C

Drawings (Unit: mm)

