



MBB Half-cell Monofacial Module (72)³⁵

TW540~565MAP

M10-144-H

PRODUCT FEATURES



High Power Output
Low LCOE



Maximum Power
565W*



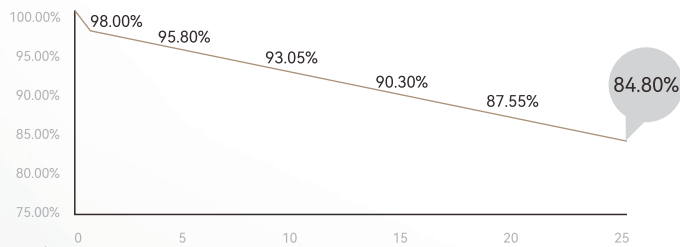
High Reliability



Low LID

POWER WARRANTY

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



12-year warranty for materials



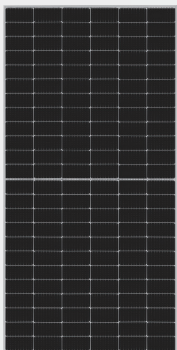
25-year warranty for linear power output

MANAGEMENT SYSTEM AND PRODUCT CERTIFICATION

ISO45001: 2018/Occupational Health and Safety Management System

ISO14001: 2015/Environment Management System

ISO9001: 2015/Quality Management System



Front



Rear



Electrical Characteristics (STC)

Module type: TW***MAP-144-H

Maximum power: Pmax (W)	540	545	550	555	560	565
Open circuit voltage: Voc (V)	49.51	49.71	49.91	50.11	50.31	50.51
Short circuit current: Isc (A)	13.84	13.88	13.92	13.96	14.00	14.04
Voltage at maximum power point: Vmp (V)	40.85	41.05	41.25	41.45	41.65	41.85
Current at maximum power point: Imp (A)	13.22	13.28	13.33	13.39	13.45	13.51
Module efficiency: η (%)	20.9	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)	408.6	412.4	416.2	420.0	423.8	426.9
Open circuit voltage: Voc (V)	46.96	47.18	47.40	47.62	47.85	48.07
Short circuit current: Isc (A)	10.92	10.94	10.97	10.99	11.02	11.05
Voltage at maximum power point: Vmp (V)	39.01	39.28	39.55	39.82	40.09	40.31
Current at maximum power point: Imp (A)	10.47	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	P-TPC
Orientation	144 (6X24)
Size	2278 \pm 2X1134 \pm 2X35mm
Weight	27.8kg
Glass	3.2mm AR coated heat strengthened glass
Backsheet	White
Frame	Anodized aluminum alloy frame
Junction Box	IP68, 3 diodes
Cable	4.0mm ² , Positive: 400mm, Negative: 200mm, length can be customized
Connector	MC4 Compatible or MC4 original
Wind/Snow Load	2400Pa/5400Pa
Packaging	31pcs per pallet, 620pcs per 40'HC

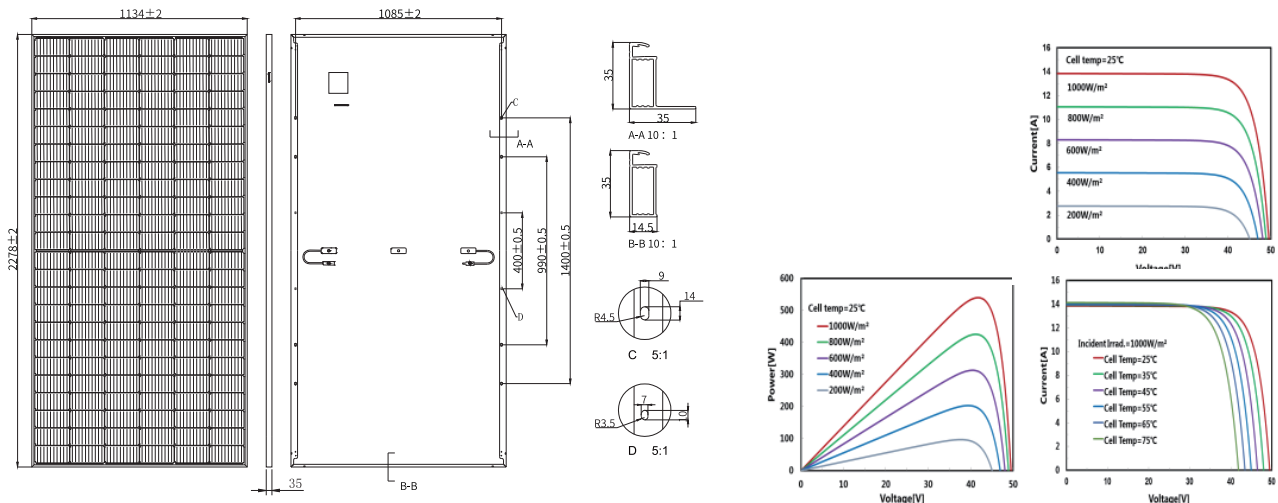
Operating Parameters

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)



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