

MBB Half-cell Monofacial Module (72)³⁵

TW535~560MAP

M10-144-H

PRODUCT FEATURES



High Power Output
Low LCOE



Maximum Power
560W*



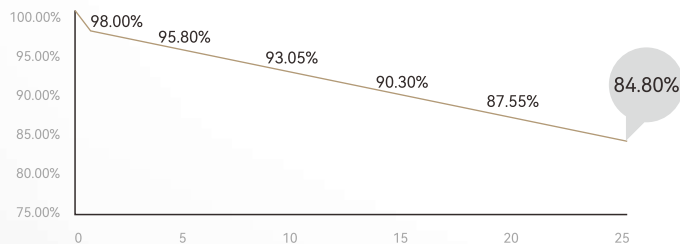
High
Reliability



Low
LID

POWER WARRANTY

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



12-year warranty for materials



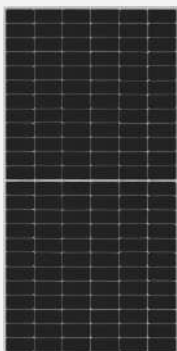
25-year warranty for linear power output

PRODUCT CERTIFICATIONS

ISO9001: 2015/Quality Management System

ISO14001: 2015/Environment Management System

ISO45001: 2018/Occupational Health and Safety



Front



Rear



Electrical Characteristics (STC)

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

Maximum power: P _m (W)	535	540	545	550	555	560
Open circuit voltage: V _{oc} (V)	49.51	49.75	49.98	50.22	50.45	50.68
Short circuit current: I _{sc} (A)	13.60	13.63	13.66	13.70	13.73	13.76
Voltage at maximum power point: V _m (V)	41.77	42.06	42.35	42.64	42.93	43.22
Current at maximum power point: I _m (A)	12.81	12.84	12.87	12.90	12.93	12.96
Module efficiency: η (%)	20.7	20.9	21.1	21.3	21.5	21.7

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

Electrical Characteristics (NMOT)

Maximum power: P _m (W)	404.8	408.6	412.4	416.2	420.0	423.8
Open circuit voltage: V _{oc} (V)	46.74	46.96	47.18	47.40	47.62	47.85
Short circuit current: I _{sc} (A)	10.89	10.92	10.94	10.97	10.99	11.02
Voltage at maximum power point: V _m (V)	38.74	39.01	39.28	39.55	39.82	40.09
Current at maximum power point: I _m (A)	10.45	10.47	10.50	10.52	10.55	10.57

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

Mechanical Parameters

Cells	Monocrystalline silicon cell
Orientation	144 (6×24)
Size	2278±2×1134±2×35mm
Weight	27.8kg
Glass	3.2mm high transmittance, AR coated heat strengthened glass
Backsheet	White
Frame	Anodized aluminum alloy frame
Junction Box	IP68, 3 diodes
Cable	4.0mm ² , Landscape: 1200/1200mm, Portrait: 280/280mm
Connector	MC4 Compatible
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 (P _{max})	-0.35%/°C
Temperature Coefficient (V _{oc})	-0.27%/°C
Temperature Coefficient (I _{sc})	0.045%/°C
NMOT	43±2°C

Drawings (Unit: mm)

