



MBB Half-cell Monofacial Module (66)

TW645~670MCP G12-132-H

PRODUCT FEATURES



High Power Output
Low LCOE



Maximum Power
670W*



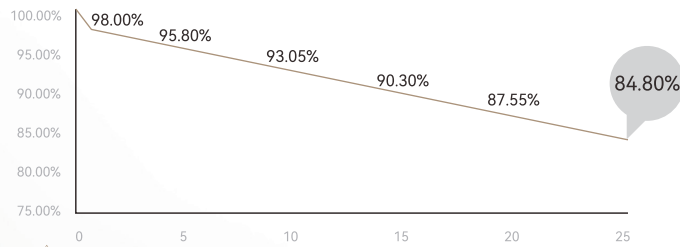
High Reliability



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***MCP-132-H

Maximum power: Pmax (W)	645	650	655	660	665	670
Open circuit voltage: Voc (V)	45.00	45.20	45.40	45.60	45.80	46.00
Short circuit current: Isc (A)	18.41	18.46	18.50	18.55	18.60	18.65
Voltage at maximum power point: Vmp (V)	37.20	37.40	37.60	37.80	38.00	38.20
Current at maximum power point: Imp (A)	17.34	17.38	17.42	17.46	17.50	17.54
Module efficiency: η (%)	20.8	20.9	21.1	21.2	21.4	21.6

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

Electrical Characteristics (NMOT)

Maximum power: Pmax (W)	488.0	491.8	495.6	499.4	503.1	506.9
Open circuit voltage: Voc (V)	42.39	42.58	42.77	42.96	43.14	43.33
Short circuit current: Isc (A)	14.84	14.88	14.92	14.96	15.00	15.04
Voltage at maximum power point: Vmp (V)	34.70	34.89	35.08	35.26	35.45	35.64
Current at maximum power point: Imp (A)	14.06	14.09	14.13	14.16	14.19	14.22

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

Mechanical Parameters

Cells	P-TPC
Orientation	132 (6×22)
Size	2384±2×1303±2×35mm
Weight	34.2kg
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, 558pcs per 40'HC

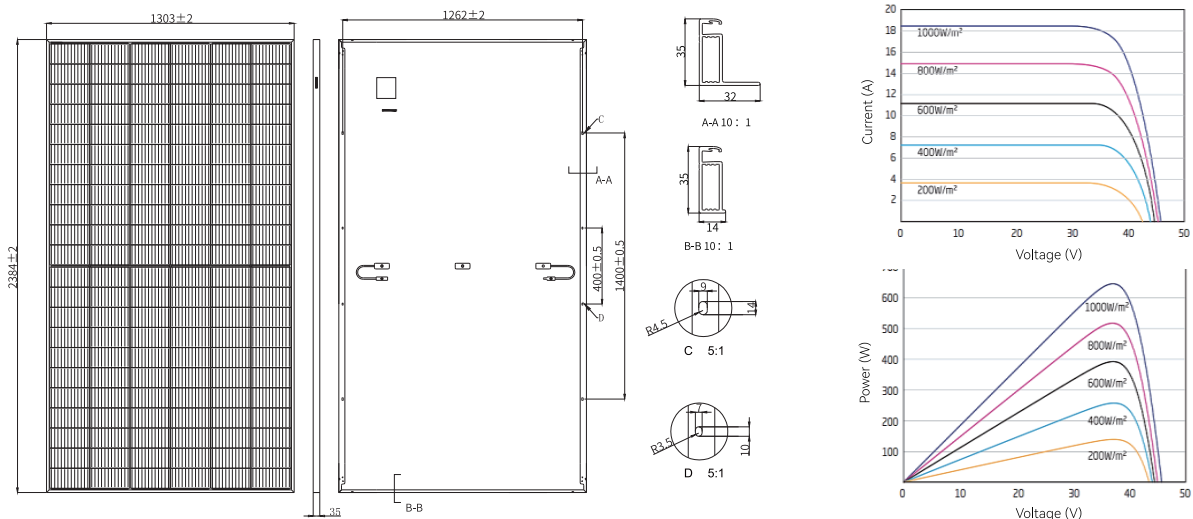
Operating Parameters

Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	30A
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)



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