



MBB Half-cell Monofacial Module (60)

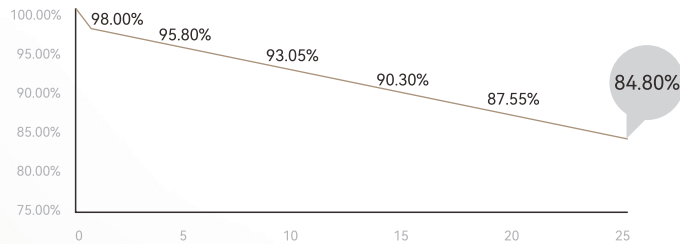
TW585~610MCP G12-120-H

PRODUCT FEATURES

- High Power Output
Low LCOE
- Maximum Power
610W*
- High Reliability
- Low LID

POWER WARRANTY

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



12 12-year warranty for materials

25 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***MCP-120-H

Maximum power: Pm (W)	585	590	595	600	605	610
Open circuit voltage: Voc (V)	40.85	41.05	41.25	41.45	41.65	41.85
Short circuit current: Isc (A)	18.40	18.45	18.50	18.55	18.61	18.66
Voltage at maximum power point: Vm (V)	33.76	33.96	34.16	34.36	34.56	34.76
Current at maximum power point: Im (A)	17.33	17.37	17.41	17.46	17.50	17.55
Module efficiency: η (%)	20.7	20.8	21.0	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: Pm (W)	442.6	446.4	450.2	454.0	457.7	461.5
Open circuit voltage: Voc (V)	38.48	38.67	38.86	39.05	39.24	39.43
Short circuit current: Isc (A)	14.83	14.87	14.92	14.96	15.00	15.04
Voltage at maximum power point: Vm (V)	31.50	31.69	31.88	32.06	32.25	32.43
Current at maximum power point: Im (A)	14.05	14.09	14.12	14.16	14.19	14.23

NMOT: Irradiance 800W/m², Ambient Temperature 20 °C, AM=1.5, Wind Speed 1m/s

Mechanical Parameters

Cells	P-TPC
Orientation	120 (6×20)
Size	2172±2×1303±2×35mm
Weight	31kg
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: 280mm, Negative: 280mm, 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)	-0.35%/°C
Temperature Coefficient (Voc)	-0.27%/°C
Temperature Coefficient (Isc)	+0.045%/°C
NMOT	45±2°C

Drawings (Unit: mm)

