

TW415MAP-108-H-S

MONO-FACIAL MODULE (M10 MBB Half-cut Cell)

Product Features



Ultra low performance degradation



Maximum power up to 420W+



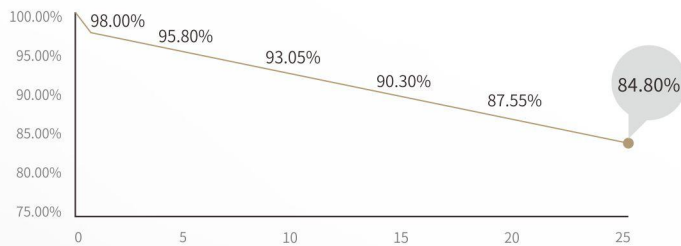
High module quality ensure long-term reliability



Excellent outdoor power generation performance

Extra Linear Power Output Warranty

Linear Performance Warranty



Materials and Processing Warranty



Extra Linear Power Output Warranty

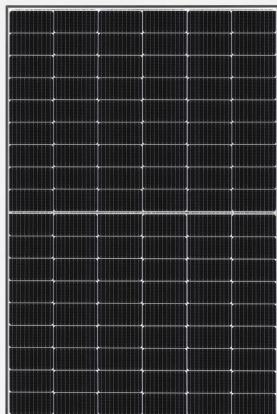
System Certifications

ISO45001: Occupational Health and Safety Management System

ISO14001: Environmental Management System

ISO9001: Quality Management System

Obverse side



Back side



Electrical Data (STC)

PRODUCT: TW***MAP-108-H-S

Maximum Power-PMAX (Wp)	385	390	395	400	405	410	415	420
Open Circuit Voltage-VOC (V)	36.33	36.48	36.63	36.78	36.93	37.08	37.23	37.38
Short Circuit Current-ISC (A)	13.24	13.33	13.42	13.52	13.61	13.70	13.80	13.89
Maximum Power Voltage-VMPP (V)	30.56	30.71	30.86	31.01	31.16	31.31	31.46	31.61
Maximum Power Current-IMPP (A)	12.60	12.70	12.80	12.90	13.00	13.09	13.19	13.29
Module Efficiency η (%)	19.7	20.0	20.2	20.5	20.7	21.0	21.3	21.5

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

Electrical Data (NOCT)

Maximum Power-PMAX (Wp)	291.4	295.2	299.0	302.8	306.6	310.3	314.1	317.9
Open Circuit Voltage-VOC (V)	34.30	34.44	34.58	34.72	34.86	35.00	35.15	35.29
Short Circuit Current-ISC (A)	10.60	10.67	10.75	10.82	10.90	10.97	11.05	11.12
Maximum Power Voltage-VMPP (V)	28.35	28.49	28.62	28.76	28.90	29.04	29.18	29.32
Maximum Power Current-IMPP (A)	10.28	10.36	10.44	10.52	10.60	10.68	10.76	10.84

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

Mechanical Data

Solar Cells	Monocrystalline
No. of cells	108 Cells[6×18]
Module Dimensions	1722±2×1134±2×30mm
Weight	20.5kg
Glass	3.2mm, High Transmission, AR Coated Heat Strengthened Glass
Backsheet	White
Frame	Anodized Aluminium Alloy
J-Box	Ip68 rated, Three diodes
Cables	4.0 mm ²
Portrait	1200mm
Connector	Mc4 original
Wind/Snow Load	2400Pa/5400Pa
Modules per box	36pcs per pallet
Packaging	936pcs per 40'HC

MAXIMUM RATINGS

Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500V DC
Max Series Fuse Rating	25A
Power Tolerance-PMAX (W)	0~+5W

TEMPERATURE RATINGS

Temperature Coecient of PMAX	-0.35%/°C
Temperature Coecient of VOC	-0.27%/°C
Temperature Coecient of ISC	0.045%/°C
NOCT(Nominal Operating Cell Temperature)	43±2°C

Dimensions Of PV Module(mm)

