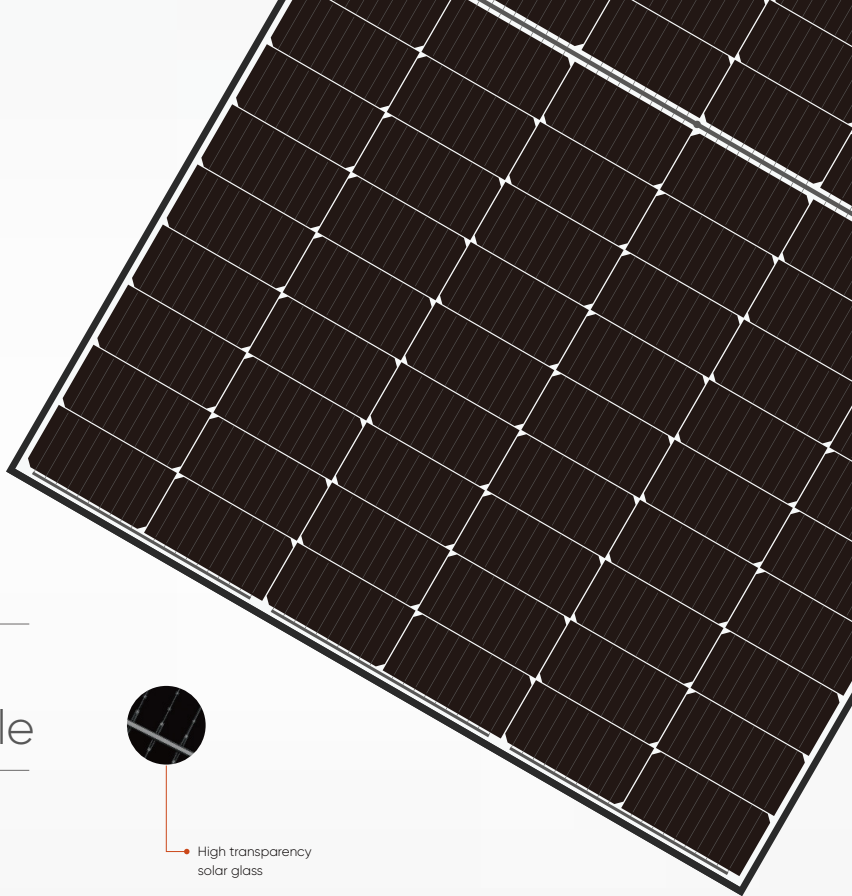


MT5 405-425W

MS425M-54H

PERC MBB Half Cell Black
Frame Monocrystalline Module



Features

High Efficiency up to 21.76%

Large area cells based on 182mm silicon wafers,
High module efficiency with high density interconnect technology

High Energy Yield

Up to 21.76% additional power gain from back side ,
Excellent low irradiation performance

High Reliability

Resistant to harsh environments such as salt, ammonia, sand,
high temperature and high humidity areas

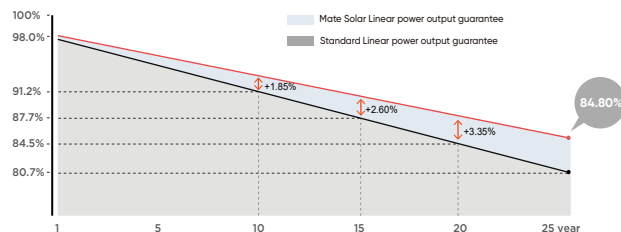
High Customer Value

Lowest guaranteed first year and annual degradation,
Compatible with existing mainstream system components

Quality Guarantee

12-Year Warranty for Materials and Processing

25-Year Warranty for Extra Linear Power Output



* Please refer to Mate Solar standard warranty for details

Certifications

IEC 61215, IEC 61730, UL 61730

ISO 9001: 2015: ISO Quality Management System

ISO 14001: 2015: ISO Environment Management System

ISO 45001: 2018: Occupational Health and Safety



WEB



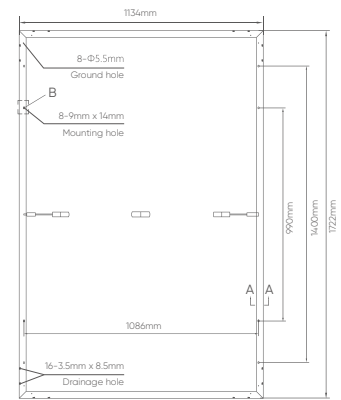
WECHAT

Mechanical Data

Number of Cells	108 Cells (6x18)
Dimensions of Module L*W*H	1722 x 1134 x 30mm
Weight	20.5kg
Front Side Glass	High transparency solar glass 3.2mm
Backsheet	White
Frame	Black/Silver, anodized aluminium alloy
Junction Box	IP68 Rated, 3 Diodes
Cable	4.0mm ² , Portrait: 300mm / Landscape: 1200mm
Wind/Snow Load	2400Pa/5400Pa*
Connector	MC Compatible

* Please check the installation manual for more details

Module Dimension

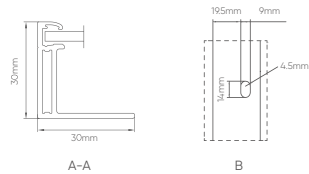


Back View

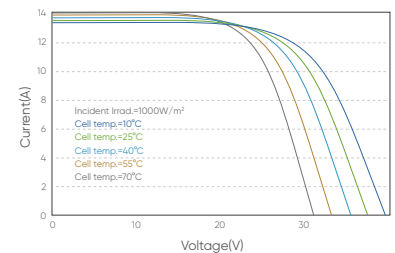
Electrical Specification (STC*)

Maximum Power (Pmax/W)	405	410	415	420	425
Maximum Power Voltage (Vmp/V)	30.52	30.62	30.72	30.82	30.92
Maximum Power Current (Imp/A)	13.27	13.39	13.51	13.63	13.75
Open Circuit Voltage (Voc/V)	37.06	37.14	37.22	37.3	37.38
Short Circuit Current (Isc/A)	13.85	13.92	13.99	14.06	14.13
Module Efficiency (%)	20.75	21.00	21.26	21.51	21.76
Power Output Tolerance (W)	0~+5				

* STC (Standard Testing Conditions): Irradiance 1000W/m², Cell Temperature 25°C, Spectra at AM1.5



I-V Curve at Different Temperature (425W)

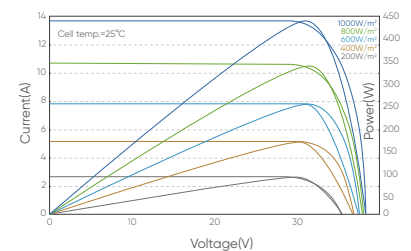


Electrical Specification (NMOT*)

Maximum Power (Pmax / W)	302	306	310	314	318
Maximum Power Voltage (Vmp / V)	34.98	35.06	35.14	35.22	35.30
Maximum Power Current (Imp / A)	11.19	11.25	11.31	11.37	11.43
Open Circuit Voltage (VOC / V)	28.58	28.74	28.9	29.06	29.22
Short Circuit Current (Isc / A)	10.57	10.65	10.73	10.81	10.89

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

I-V/P-V Curve at Different Temperature (425W)



Maximum Ratings

Operational Temperature	-40~+85°C
Maximum System Voltage	1500V DC
Max Series Fuse Rating	25A

Temperature Ratings

NMOT (Nominal Module Operating Temperature)	45±2°C
Temperature Coefficient of Isc	+0.04%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Pmax	-0.34%/°C

Packaging Configuration

Module per Box	36 pieces
Module per 40' Container	936 pieces