

# MBCP-132-D MONOCRYSTALLINE MODULE

## Product Features:



Ultra low performance degradation



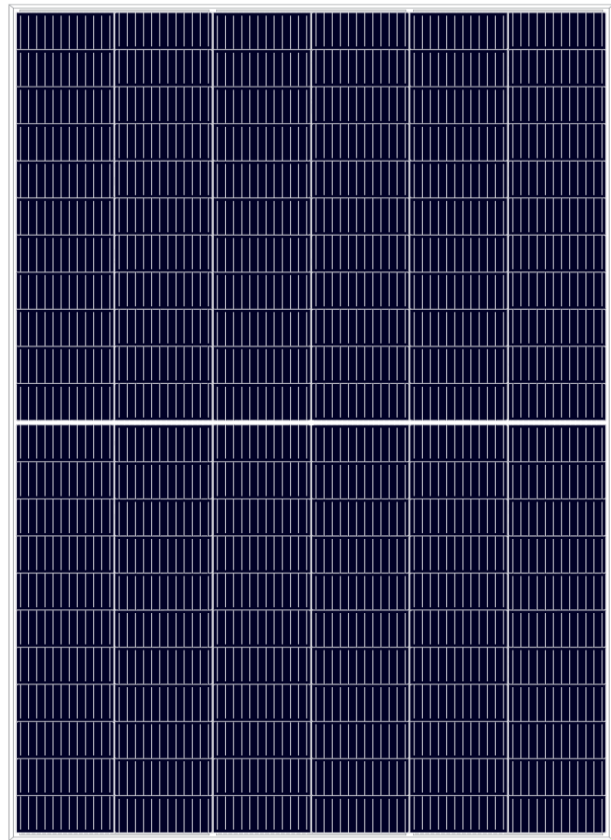
Maximum power up to 670W+



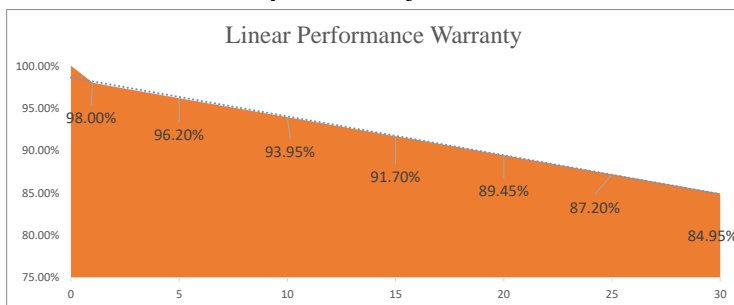
High module quality ensure long-term reliability



Excellent outdoor power generation performance



## Extra Linear Power Output Warranty



12 Years Materials and Processing Warranty



30 Years Extra Linear Power Output Warranty

## System Certifications:

- ISO9001: Quality Management System
- ISO14001: Environmental Management System
- ISO45001: Occupational Health and Safety Management System

## Product Certifications :



### Electrical Data (STC)

PRODUCT: : TW \*\*\* MBCP-132-D

Maximum Power- $P_{MAX}$ (Wp):	635	640	645	650	655	660	665	670
Open Circuit Voltage- $V_{OC}$ (V)	44.80	45.00	45.20	45.40	45.60	45.80	46.00	46.20
Short Circuit Current- $I_{SC}$ (A)	18.07	18.12	18.17	18.21	18.26	18.31	18.36	18.41
Maximum Power Voltage- $V_{MPP}$ (V)	37.00	37.20	37.40	37.60	37.80	38.00	38.20	38.40
Maximum Power Current- $I_{MPP}$ (A)	17.16	17.20	17.25	17.29	17.33	17.37	17.41	17.45
Module Efficiency $\eta$ (%)	20.4	20.6	20.8	20.9	21.1	21.2	21.4	21.6

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass1.5, Measuring tolerance:  $\pm 3\%$

### Electrical Data (NOCT)

Maximum Power- $P_{MAX}$ (Wp)	480.4	484.2	488.0	491.8	495.6	499.4	503.1	506.9
Open Circuit Voltage- $V_{OC}$ (V)	42.20	42.39	42.58	42.77	42.96	43.14	43.33	43.52
Short Circuit Current- $I_{SC}$ (A)	14.57	14.61	14.65	14.68	14.72	14.76	14.80	14.84
Maximum Power Voltage- $V_{MPP}$ (V)	34.52	34.70	34.89	35.08	35.26	35.45	35.64	35.82
Maximum Power Current- $I_{MPP}$ (A)	13.92	13.95	13.99	14.02	14.05	14.09	14.12	14.15

NOCT: Irradiance at 800 W/m<sup>2</sup>, Ambient Temperature 20 °C, Wind Speed 1m/s

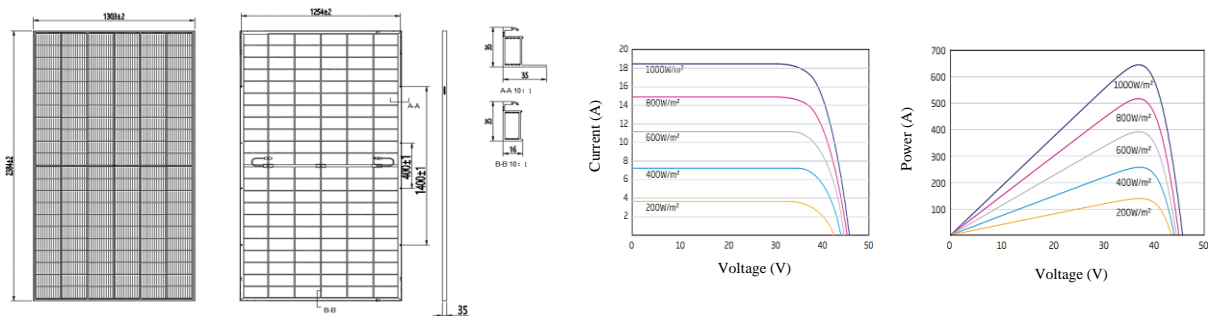
### Electrical characteristics with different power bin(reference to different Irradiance ratio)

5%	Maximum Power- $P_{MAX}$ (Wp)	666.8	672.0	677.3	682.5	687.8	693.0	698.3	703.5
	Module Efficiency $\eta$ [%]	21.5	21.6	21.8	22.0	22.1	22.3	22.5	22.6
15%	Maximum Power- $P_{MAX}$ (Wp)	730.3	736.0	741.8	747.5	753.3	759.0	764.8	770.5
	Module Efficiency $\eta$ [%]	23.5	23.7	23.9	24.1	24.2	24.4	24.6	24.8
25%	Maximum Power- $P_{MAX}$ (Wp)	793.8	800.0	806.3	812.5	818.8	825.0	831.3	837.5
	Module Efficiency $\eta$ [%]	25.6	25.8	26.0	26.2	26.4	26.6	26.8	27.0

### Mechanical Data

Solar Cells	Monocrystalline
No. of cells	132[6×22]
Module Dimensions	2384±2×1303±2×35mm
Weight	38.7KG
Front Side Glass	2.0mm High Transmission, AR Coated Heat Strengthened Glass
Back Side Glass	2.0mm High Transmission, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
J-Box	IP 68 rated, Three diodes
Cables	4.0 mm <sup>2</sup>
Connector	Original MC4
Wind/Snow Load	2400Pa/5400Pa
Modules per box	31 pcs per pallet
Packaging	527 pcs per 40'HC

### Dimensions Of PV Module(mm)



**CAUTION:** READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

Tongwei Solar Energy (Hefei) Co., LTD

Technical specification of the TW635~670MBCP-132-D

### TEMPERATURE RATINGS

Temperature Coefficient of  $P_{MAX}$  -0.35%/°C

Temperature Coefficient of  $V_{OC}$  -0.28%/°C

Temperature Coefficient of  $I_{SC}$  +0.05%/°C

NOCT(Nominal Operating Cell Temperature) 42±2°C

### MAXIMUM RATINGS

Operational Temperature -40°C~+85°C

Maximum System Voltage 1500V DC

Max Series Fuse Rating 35A

Power Tolerance- $P_{MAX}$  (W) 0~+5W

Bifaciality 70±5%