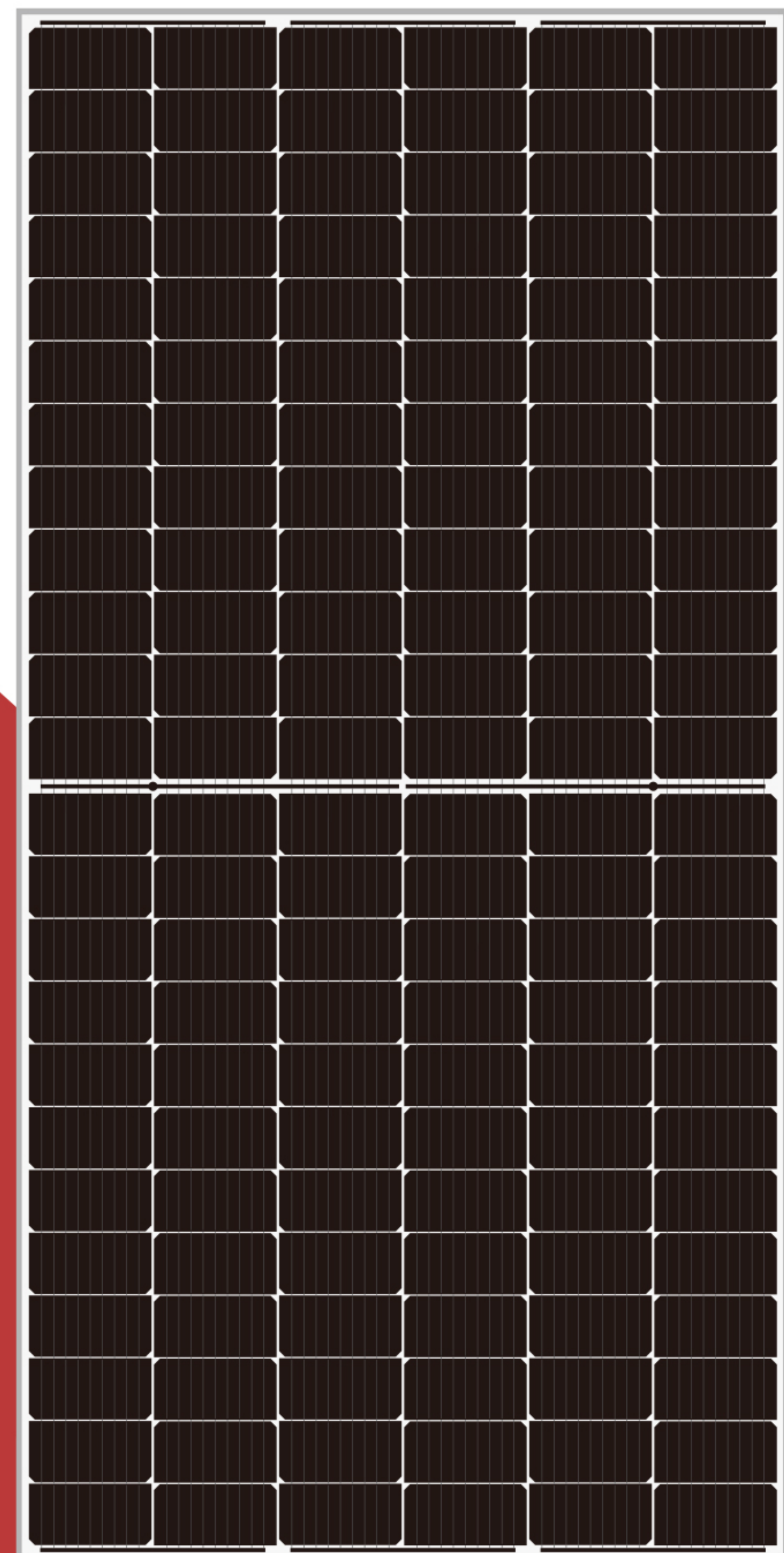




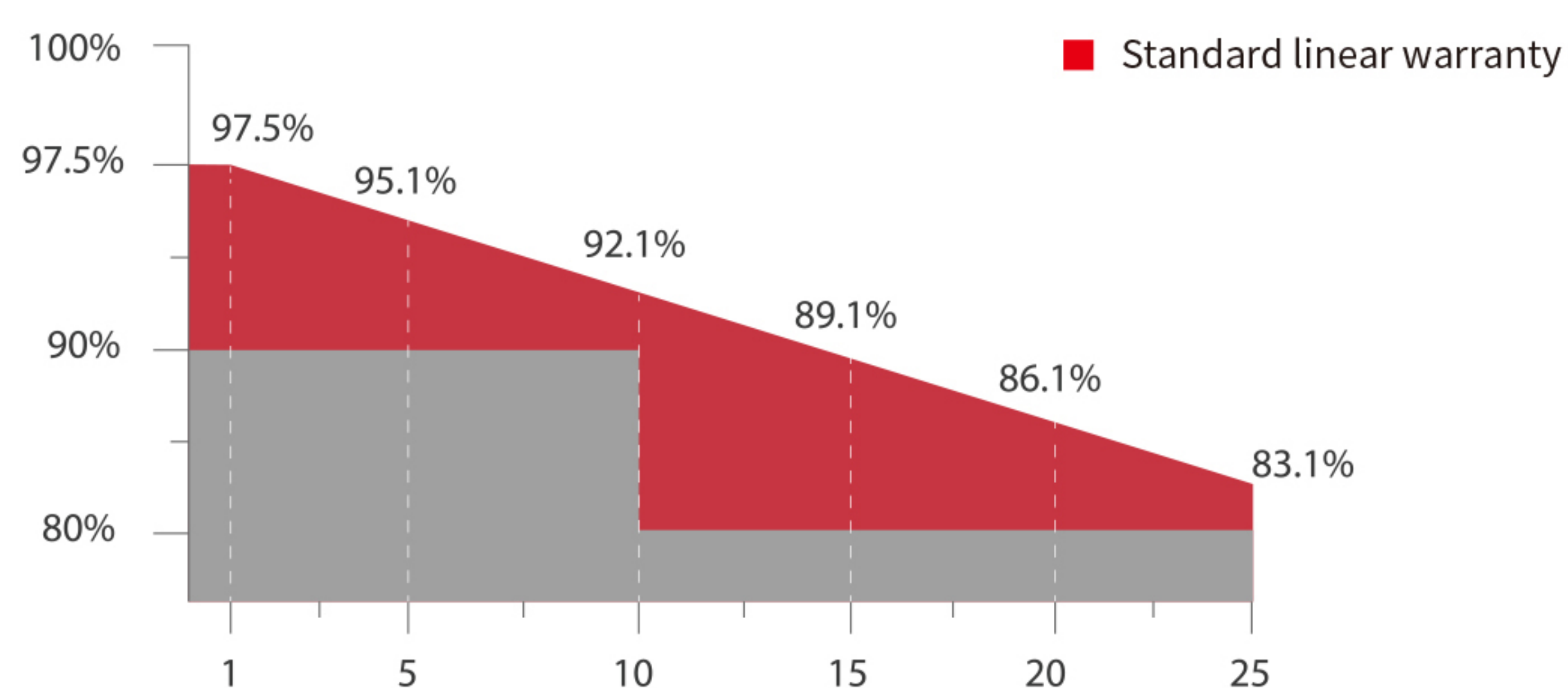
HS-M166H672  
440-460W

# 440-460W Mono

Suitable for ground power plants and large projects.  
166mm silicon wafers with multi-busbar and half-cut cell technologies. Resistant to harsh environments such as salt, ammonia, sand, high temperature and high humidity areas  
High module quality ensures long-term reliability.



## Linear performance Warranty



Linear performance warranty



Product warranty

## Comprehensive Certificates

- IEC61215/IEC61730
- ISO9001:Quality Management System
- ISO14001:Environmental Management System
- ISO45001:Occupational Health and Safety Management System



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## Electrical Specification (STC\*)

Maximum Power	Pmax(W)	440	445	450	455	460
Maximum Power Voltage	Vmp(V)	41.40	41.75	42.10	42.45	42.80
Maximum Power Current	Imp(A)	10.63	10.66	10.69	10.72	10.75
Open Circuit Voltage	Voc(V)	49.25	49.55	49.84	50.13	50.42
Short Circuit Current	Isc(A)	11.14	11.17	11.20	11.23	11.26
Module Efficiency	(%)	20.3	20.5	20.7	20.9	21.2
Power Output Tolerance	(W)					0~+5

\* Irradiance 1000W/m<sup>2</sup>, Module Temperature 25°C, Air Mass 1.5

## Electrical Specification (NOCT\*)

Maximum Power	Pmax (W)	326.08	329.78	333.48	337.26	340.94
Maximum Power Voltage	Vmp (V)	37.90	38.10	38.30	38.50	38.70
Maximum Power Current	Imp (A)	8.61	8.66	8.71	8.76	8.81
Open Circuit Voltage	Voc(V)	46.30	46.50	46.70	46.90	47.10
Short Circuit Current	Isc (A)	9.13	9.20	9.26	9.32	9.38

\* Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s

## Temperature Ratings

Nominal Operating Cell Temperature (NOCT)	44±2°C
Temperature Coefficient of Isc	+0.06%/°C
Temperature Coefficient of Voc	-0.30%/°C
Temperature Coefficient of P <sub>MAX</sub>	-0.39%/°C

## Maximum Ratings

Operational Temperature	-40~+85°C
Maximum System Voltage	1500V DC -(H)
Max Series Fuse Rating	20A

## Packaging Configuration

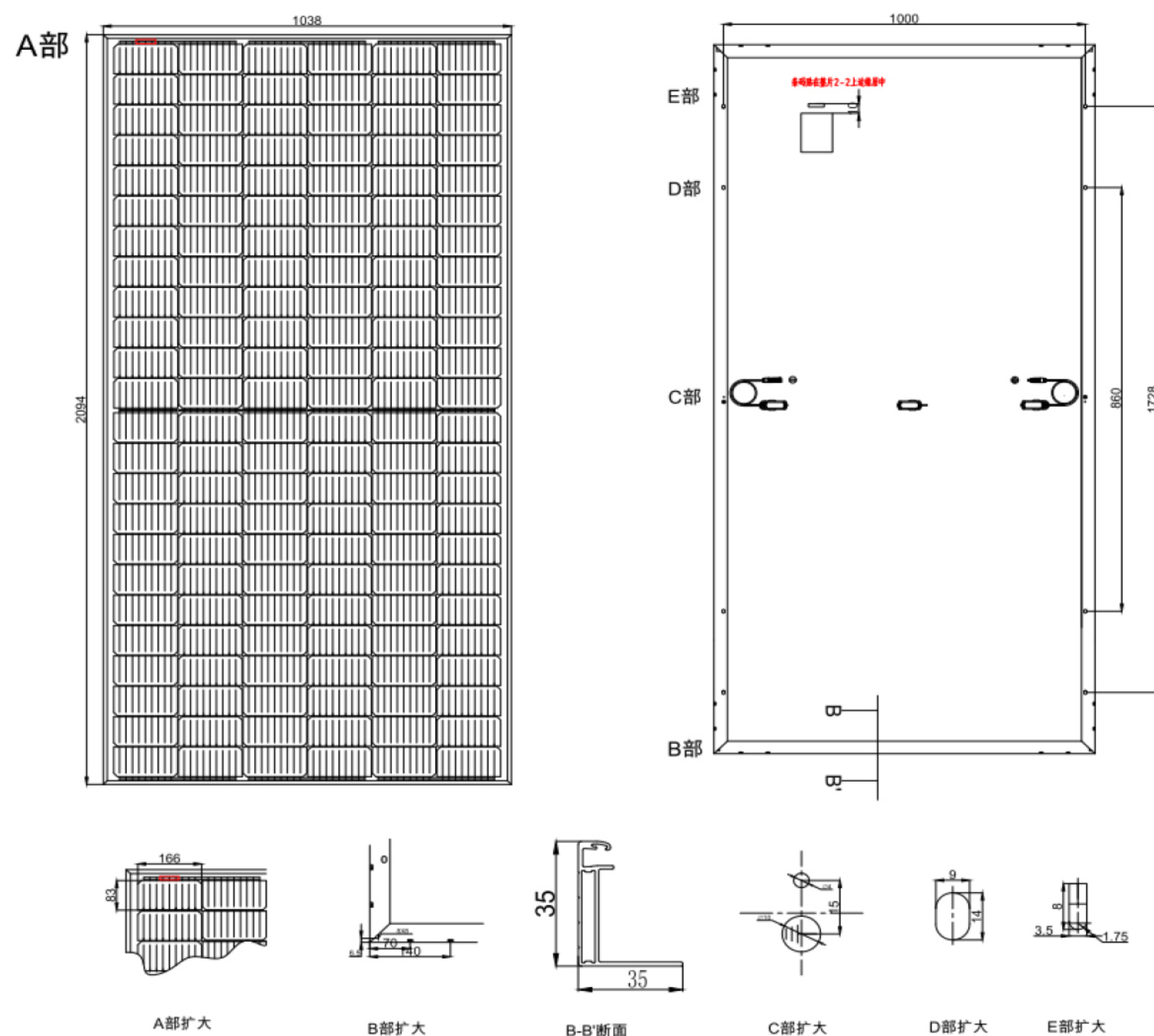
Module per box	31 pieces
Module per 40' container	682 pieces

## Mechanical Data

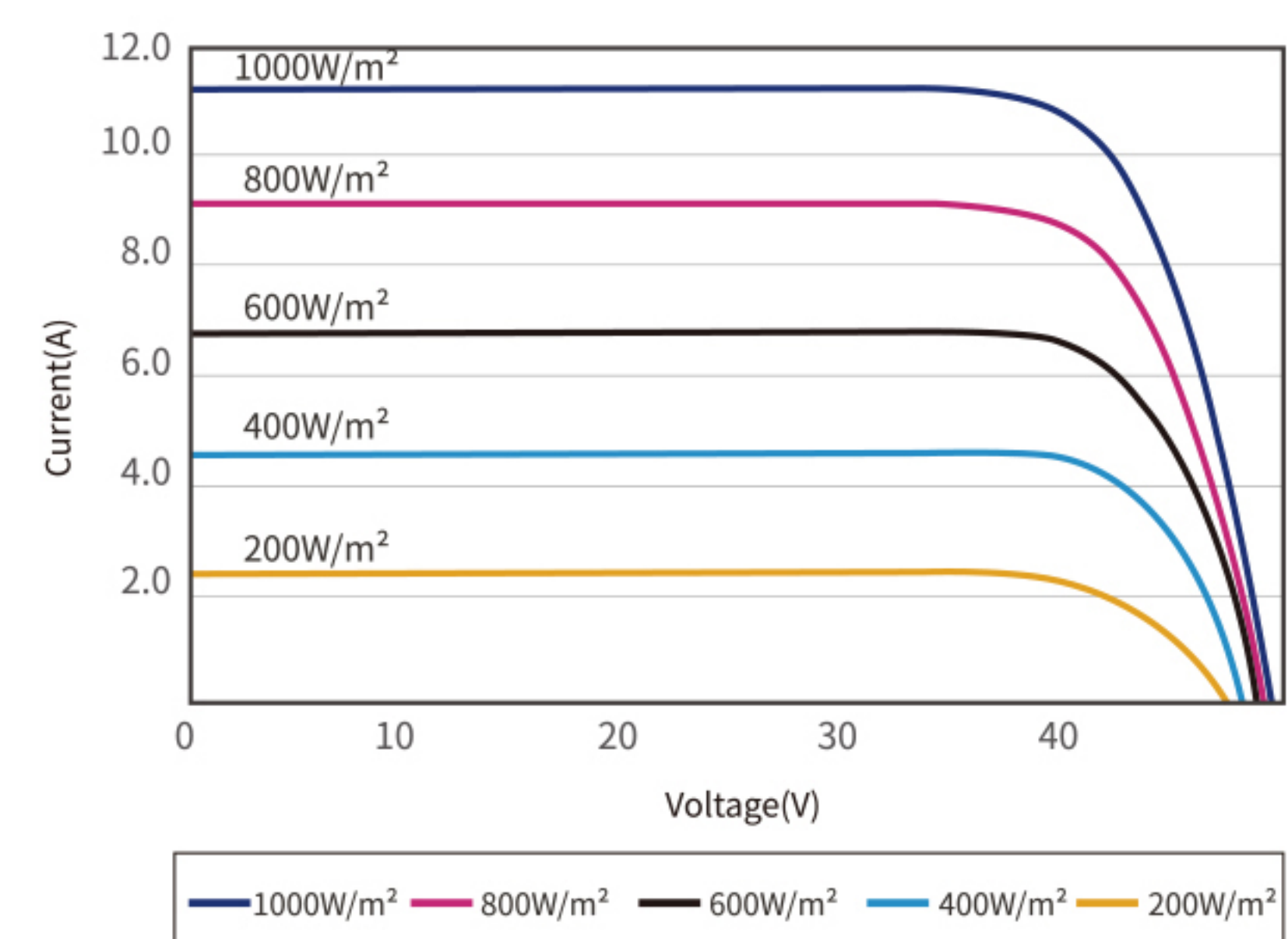
Number of Cells	144 Cells (6×24)
Dimensions of Module L*W*H (mm)	2094×1038×35mm (82.44×40.86×1.38 inches)
Weight (kg)	24.3 kg
Glass	High transparency solar glass 3.2mm (0.13 inches)
Backsheet	White
Frame	Silver, anodized aluminium alloy
J-Box	IP68 Rated
Cable	4.0mm <sup>2</sup> (0.006 inches <sup>2</sup> ), 300mm (11.8 inches)
Number of diodes	3
Wind/ Snow Load	2400Pa/ 5400Pa*
Connector	MC Compatible

\* For more details please check the installation manual

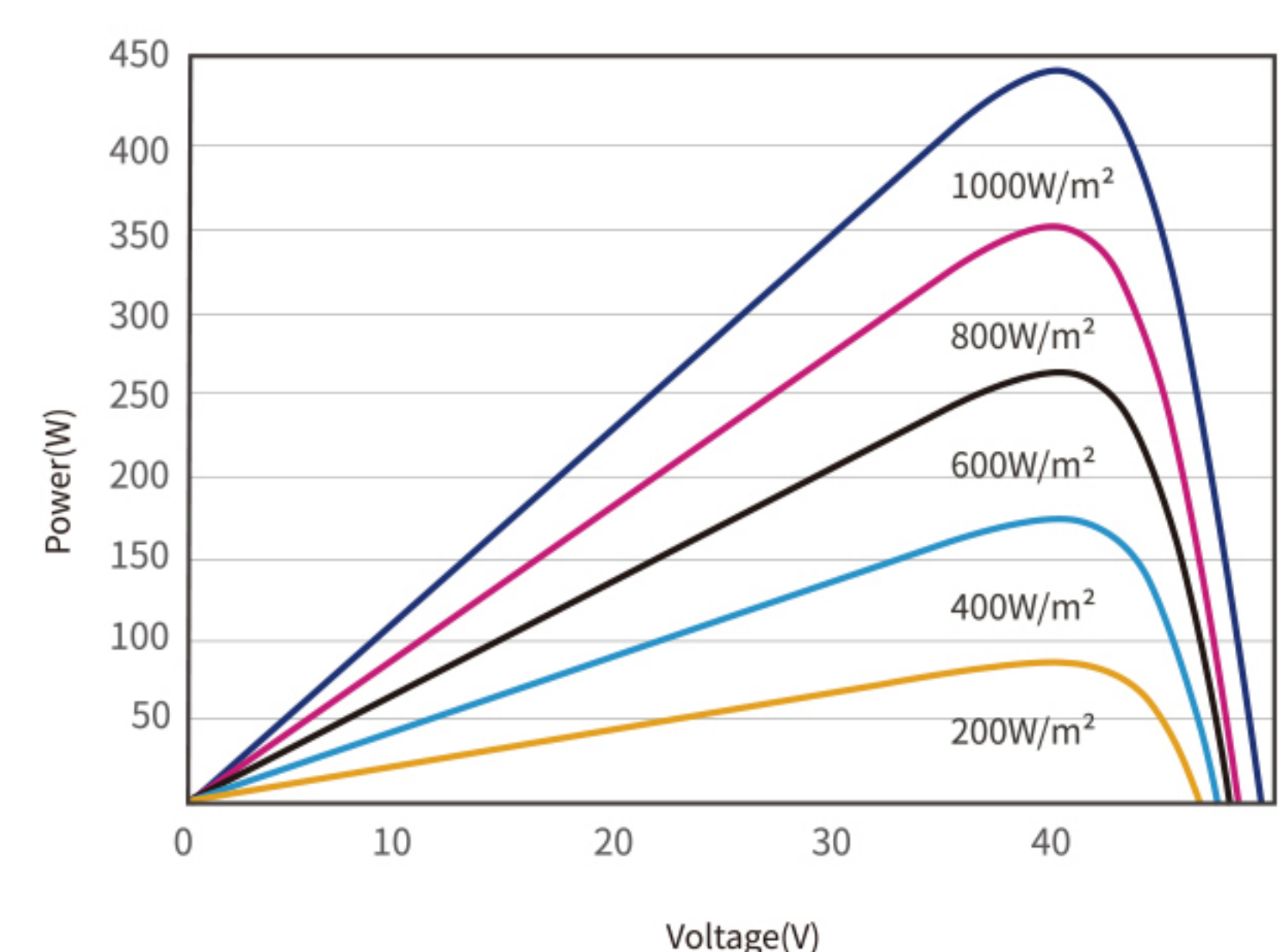
## ENGINEERING DRAWINGS



## IV CURVES



I-V CURVES OF PV MODULE(445W)



P-V CURVES OF PV MODULE(445W)