

KANGAROO SERIES



**True Source
of Energy**

MSE 440 - 455 WATT
(Bifacial Solar Module)



Electrical Specifications

* STC irradiance of 1000W/m² spectrum AM 1.5 and cell temperature of 25°C

Module Type	Pm(W)	Tolerance	Imp(A)	Vmp(V)	Isc(A)	Voc (V)	Efficiency
MS440M6-B72HSW	440	0/+3%	10.84	40.60	11.26	49.97	20.24%
MS445M6-B72HSW	445	0/+3%	10.92	40.77	11.35	50.12	20.47%
MS450M6-B72HSW	450	0/+3%	11.01	40.91	11.43	50.27	20.70%
MS455M6-B72HSW	455	0/+3%	11.10	41.04	11.51	50.42	20.93%

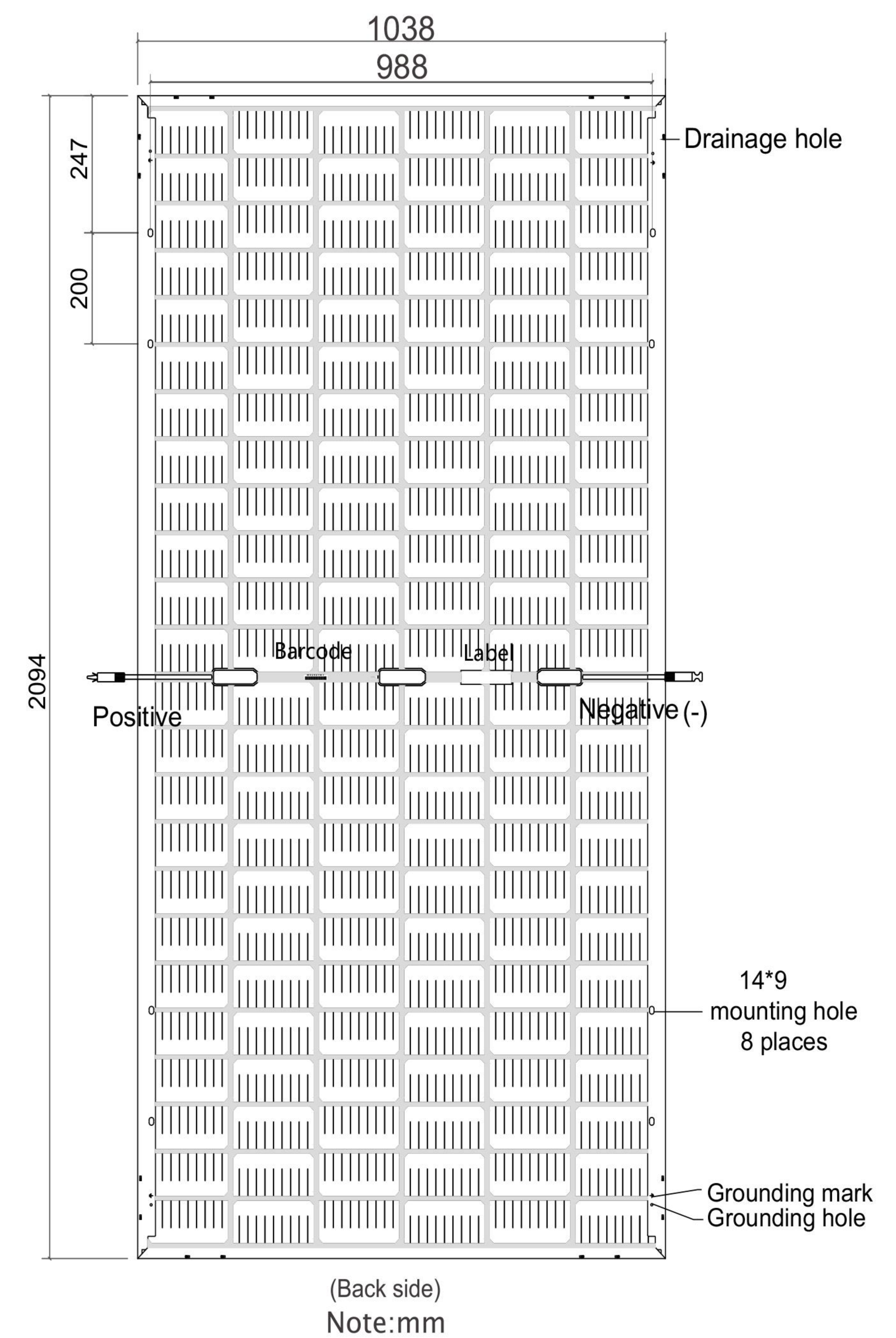
Bifaciality:70%±10%

Bifacial Gain

		440W	445W	450W	455W
10%	Pm(STC)	484W	489.5W	495W	500.5W
20%	Pm(STC)	528W	534W	540W	546W
30%	Pm(STC)	572W	578.5W	585W	591.5W

Mechanical Data

Cell Type	P type Mono-crystalline
Cell Arrangement	144(6x24)
Module Structure	Glass/Encapsulant/Glass
Glass Thickness	2.0mm+2.0mm/2.5mm+2.5mm
PV module classification	Class II
Junction Box Rating	IP68
Cables	4mm ² /1300mm or Customized Length
Connector Type	MC4/MC4 Compatible
Fire Rating Class	Class C(2.0GG)/Class A(2.5GG)



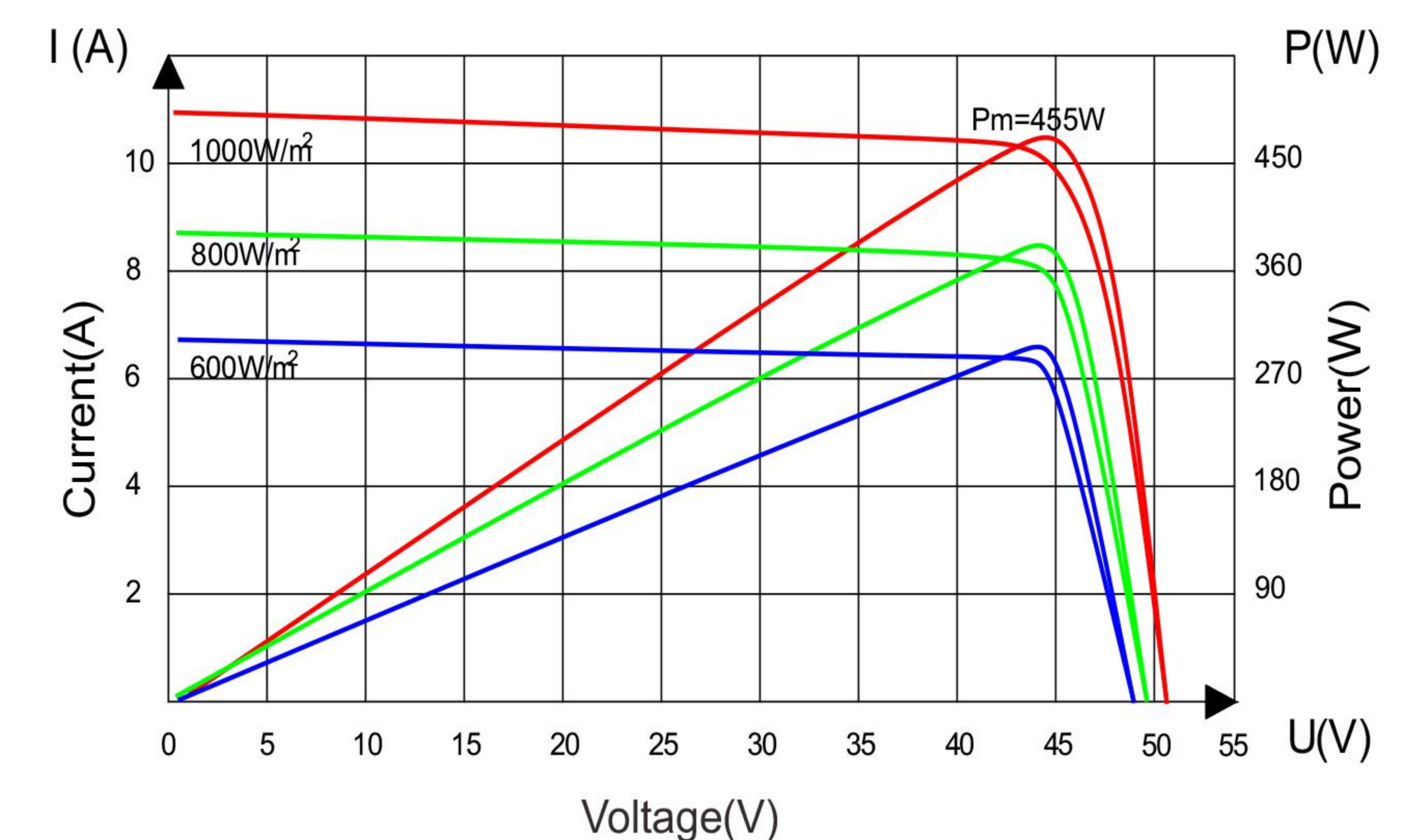
Maximum Ratings

Operating Temperature	-40°C to +85°C
Maximum System Voltage	1500V DC(IEC)
Maximum Series Fuse Rating	25A
Number of Diodes	3

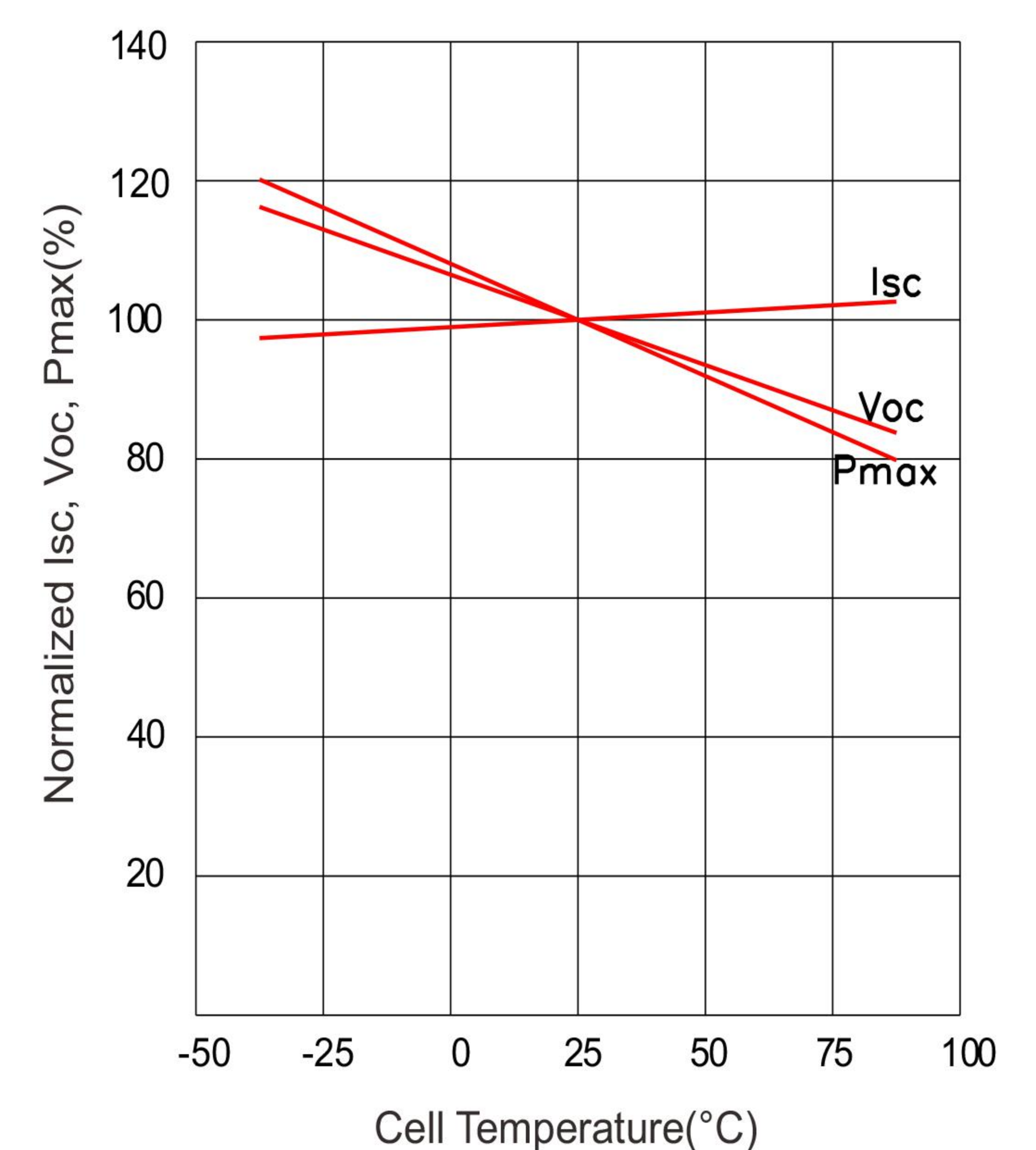
Packaging

Module Dimensions	2094x1038x35mm
Weight	28.3kg(2.0GG)/33.7kg(2.5GG)
Container	40' HQ
Pieces per Pallet	31
Pieces per Container	682

Current-Voltage&Power-Voltage Curve(455W)



Temperature Dependence of Isc, Voc, Pmax(°C)





Temperature Ratings

Nominal Operating CellTemp	45°C 2°C
Tempcoefficient of Pmax	-0.37%/°C
Tempcoefficient of Voc	-0.29%/°C
Tempcoefficient of Isc	0.05%/°C



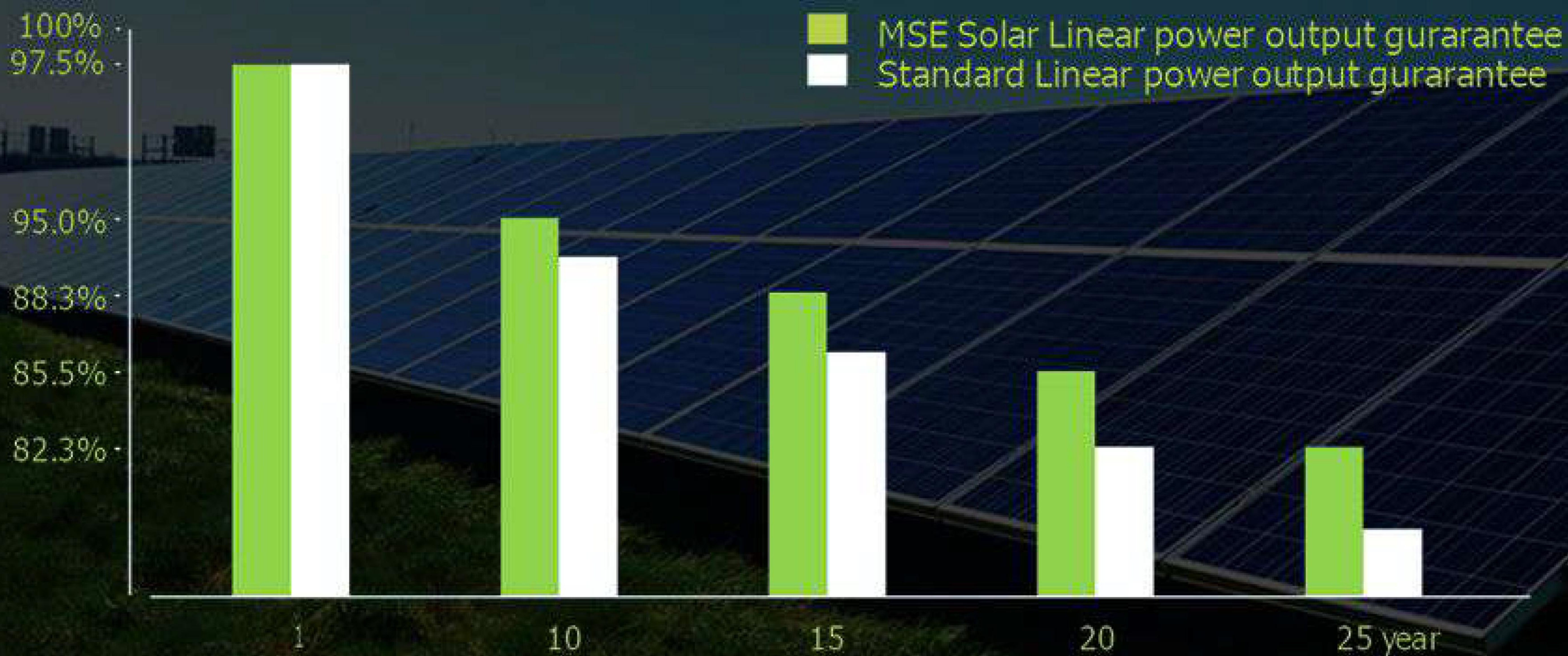
Maximum Ratings

Operational Temp	-40 to +85°C
Max system Voltage	1500V DC (IEC)
Max Series Fuse Rating	20A
Mechanical Load	5400pa



Performance Warranty

Max power degradation	0.5%/year
	97.5% at the end of first year
	95.0% at the end of 10th year
	85.5% at the end of 25th year



Made in Australia
20.76%
 Max Module Eff.

Contact Us



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