

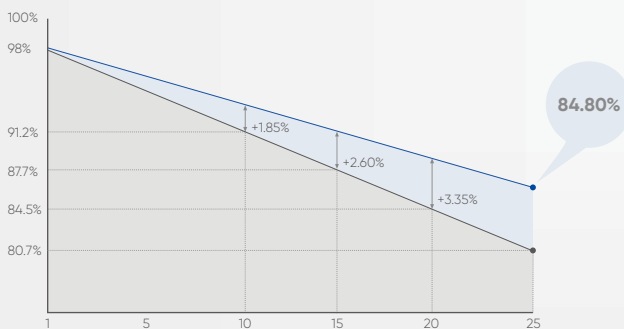
# EVO5

## 400-420W

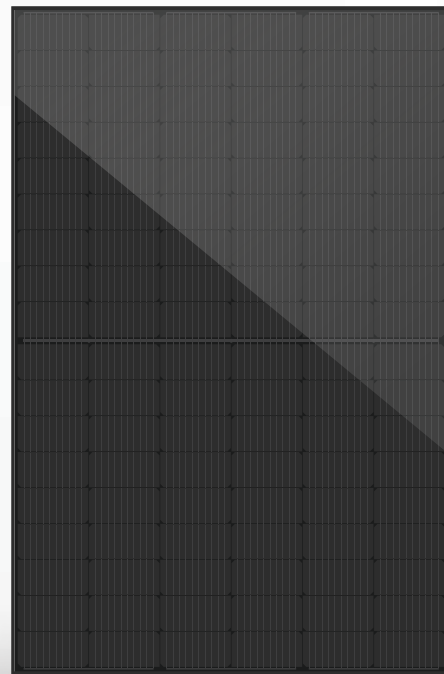
### Ultra Black MBB Half Cell Monocrystalline Module

#### Quality Guarantee

12-Year Warranty for Materials and Processing  
25-Year Warranty for Extra Linear Power Output



\* Please refer to SunEvo standard warranty for details



SE5-54H

#### High Efficiency up to 21.7%

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

#### High Energy Yield

Excellent low irradiation performance,  
Lower temperature coefficient and operating temperature

#### 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

#### Complete System and Product 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

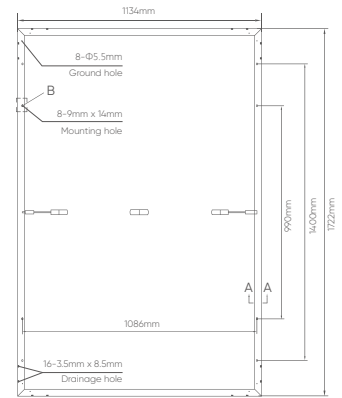


## Mechanical Data

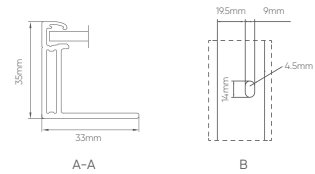
Number of Cells	108 Cells (6x18)
Dimensions of Module L*W*H	1722 x 1134 x 35mm
Weight	20.8kg
Front Side Glass	High transparency solar glass 3.2mm
Backsheet	Black
Frame	Black, anodized aluminium alloy
Junction Box	IP68 Rated, 3 Diodes
Cable	4.0mm <sup>2</sup> , Portrait: 300mm / Landscape: 1200mm
Wind/Snow Load	2400Pa/5400Pa*
Connector	MC Compatible

\* Please check the installation manual for more details

## Module Dimension



Back View



A-A

B

## Electrical Specification (STC\*)

	400	405	410	415	420
Maximum Power (Pmax/W)	31.09	31.26	31.43	31.60	31.77
Maximum Power Voltage (Vmp/V)	12.86	12.96	13.05	13.13	13.22
Maximum Power Current (Imp/A)	37.00	37.20	37.40	37.60	37.80
Open Circuit Voltage (Voc/V)	13.65	13.76	13.88	13.99	14.10
Short Circuit Current (Isc/A)	20.5	20.7	21.0	21.3	21.7
Module Efficiency (%)	0~+5				
Power Output Tolerance (W)					

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

## Electrical Specification (NMOT\*)

	298.9	302.7	306.4	310.1	313.6
Maximum Power (Pmax / W)	28.98	29.13	29.29	29.45	29.61
Maximum Power Voltage (Vmp / V)	10.32	10.39	10.46	10.53	10.60
Maximum Power Current (Imp / A)	34.97	35.15	35.34	35.53	35.72
Open Circuit Voltage (VOC / V)	11.07	11.17	11.26	11.35	11.44
Short Circuit Current (Isc / A)					

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

## Maximum Ratings

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

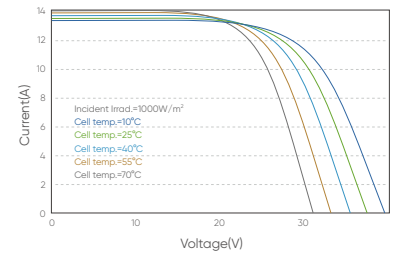
## Packaging Configuration

Module per Box	31 pieces
Module per 40' Container	806 pieces

## Temperature Ratings

NMOT (Nominal Module Operating Temperature)	41±2°C
Temperature Coefficient of Isc	+0.045%/°C
Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Pmax	-0.35%/°C

I-V Curve at Different Temperature (415W)



I-V/P-V Curve at Different Temperature (415W)

