

# 565W | 580W

The ELITE SOLAR Half cut series is the most powered module with highest efficiency. Multibus-bar permit to reduce the degradation of the cells and increase the power generated from sun.

## Feature

### Durability Against Extreme Environmental Conditions



High salt mist and ammonia resistance  
Certified by TUV NORD

### PID Resistance



Excellent Anti-PID performance guarantee limited power degradation for mass production. (Potential Induced Degradation) under the test conditions.

### High Efficiency



Higher module conversion efficiency (up to 21.00%)  
benefit from half cell structure (low resistance characteristic).

### Low-light Performance

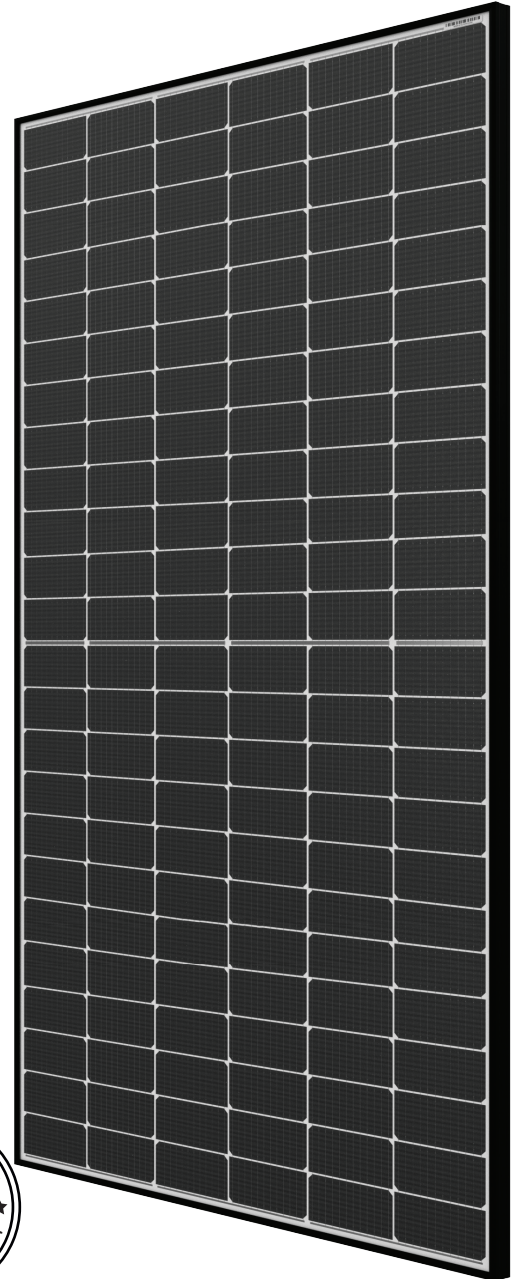


Advanced glass and cell surface textured design ensure excellent performance in low-light environment.

### Severe Weather Resilience



Certified to withstand : Wind load (2400 pascal)  
and snow load (5400 pascal).



## QUALIFICATIONS AND CERTIFICATES



**15**

30-year Product Warranty



**25**

30-year Linear Performance Warranty

## About Elite-Solar

Engineering of elite-solar gmbH recherche and development allow to acheive the maximum efficiency. By the HC series, elite-solar are positioned at the leader on the market with innovation and commitment to the industry.

H7-565 | H7-570 | H7-575 | H7-580

### Electrical Properties (STC\*)

Maximum Power (Pmax)	[W]	565	470	575	580
MPP Voltage (Vmpp)	[V]	41.92	42.01	42.22	42.37
MPP Current (Impp)	[A]	13.48	13.55	13.62	13.69
Open Circuit Voltage (Voc)	[V]	50.60	50.74	50.88	51.02
Short Circuit Current (Isc)	[A]	14.23	14.31	14.39	14.47
Module Efficiency	[%]	21.87	22.07	22.06	22.45
Operating Temperature	[°C]	-40~+85			
Maximum System Voltage	[V]	VDC 1500			
Maximum Series Fuse Rating	[A]	25			
Number of Bypass Diodes		3			
Power Tolerance	[%]	0~+5			

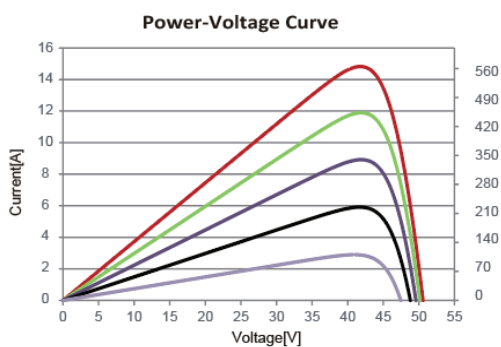
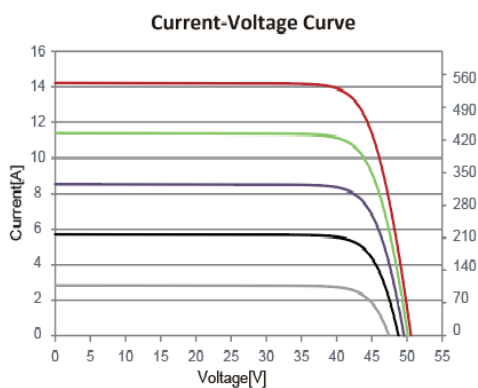
The nameplate power output is measured and determined by elite-solar at its sole and absolute direction.  
 \* STC (Standard Test Condition): Irradiance 1.000W/m<sup>2</sup>, cell temperature 25°C, AM 1.5 (Measurement Tolerance ± 3%, Electrical Parameter Tolerance: ± 5%)

### Mechanical Properties

Cells	6 x 24
Cell Type	Monocrystalline
Cell Dimensions	182x 91 mm
Number of Busbar	9 (Multi Wire Busbar)
Dimensions (L x W x H)	2278 ± 2mm x 1134 ± 2mm x 30mm ± 1mm
Front Load	5,400 Pa
Back Load	2,400 Pa
Weight	28.6 kg
Connector Type	MC4 Compatible
Junction Box	Split Junction Box (IP68 ,three diode)
Cables	4.0mm <sup>2</sup> ,+300mm,-300mm Customized Length
Glass	Class II
Frame	Anodised Aluminium / Black anodised optional

\* Please refer to the installation manual for the details

### Characteristic Curves



### Electrical Properties (NOCT\*)

Maximum Power	[W]	425	429	433	437
MPP Voltage	[V]	39.38	39.51	39.64	39.77
MPP Current (Impp)	[A]	10.79	10.85	10.91	10.97
Open Circuit Voltage	[V]	48.06	48.20	48.34	48.48
Short Circuit Current	[A]	11.49	11.55	11.61	11.67

\* NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m<sup>2</sup>, ambient temperature 20°C, wind speed 1 m/s

### Temperature Characteristics

Normal Operating Cell Temperature(Noct)	[°C]	45±2
Temperature Coefficient Of Pmax	[%/°C]	-0.30
Temperature Coefficient Of Voc	[%/°C]	-0.25
Temperature Coefficient Of Isc	[%/°C]	0.046

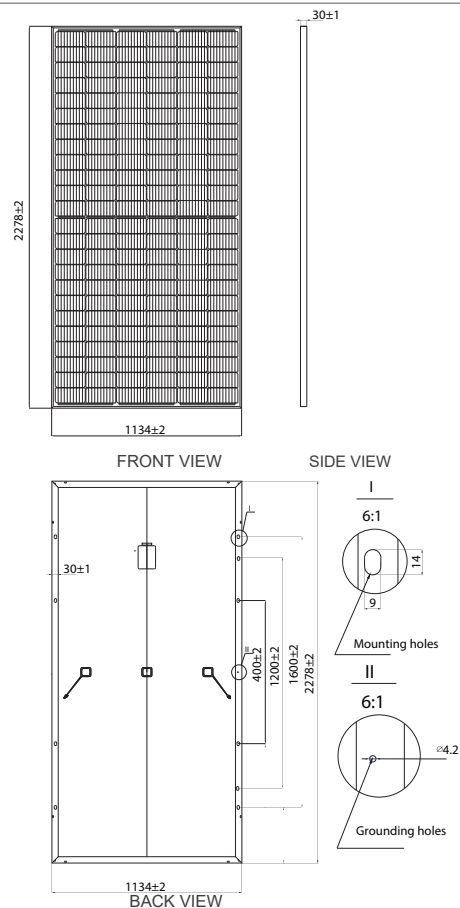
### Certifications and Warranty

Certifications	UL 1703
	IEC 61215, IEC 61730-1/-2
	IEC 61701 SALT Corrosion
	IEC 62716 AMONIA Corrosion
	ISO 9001

Product Warranty	15 Years
Output Warranty of Pmax	Linear Warranty*

\* 1) 1st year: 98%, 2) After 1st year: 0.5% annual degradation, 3) 80% for 30 years

### Dimensions (mm)



\* The distance between the center of the mounting/grounding holes.