elite solar

HC series

30 years warranty

BLACK EDITION

530W | 535W

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

RESISTANT

High salt mist and ammonia resistance
Certified by TUV NORD

PID Resistance

PID RESISTANT

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

High Efficiency

CONVERSION

Higher module conversion efficiency (up to 21.52%) benefit from half cell structure (low resistance charcteristic).

Low-light Performance

LOW LIGHT

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

Severe Weather Resilience

2400 Pa
5400 Pa

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

PREMIUM QUALITY
GERMAN TECHNOLOGY

30 30-years Product Warranty

30 30-years Linear Performance Warranty

QUALIFICATIONS AND CERTIFICATES

About Elite-Solar

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

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H7-515 I H7-520 I H7-525 I H7-530 I H7-535

Electrical Properties (STC*)

Maximum Power (Pmax)	[W]	515	520	525	530	535
MPP Voltage (Vmpp)	[V]	38.68	38.86	39.04	39.22	39.40
MPP Current (Impp)	[A]	13.32	13.38	13.45	13.52	13.58
Open Circuit Voltage (Voc)	[V]	46.41	46.59	46.77	46.95	47.13
Short Circuit Current (Isc)	[A]	14.05	14.11	14.17	14.23	14.29
Module Efficiency	[%]	21.69	21.90	22.11	22.32	22.53
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/m², cell temperature 25°C, AM 1.5 (Measurement Tolerance ± 3%, Electrical Parameter Tolerance: ± 5%)

Electrical Properties (NOCT*)

Maximum Power	[W]	387	391	395	399	403
MPP Voltage	[V]	36.13	36.30	36.47	36.64	36.81
MPP Current (Impp)	[A]	10.71	10.77	10.83	10.89	10.95
Open Circuit Voltage	[V]	44.21	44.38	44.55	44.72	44.89
Short Circuit Current	[A]	11.48	11.54	11.60	11.66	11.72

* NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m², ambient temperature 20°C, wind speed 1 m/s

Temperature Characteristics

Norminal Operating Cell Temperature(Noct)	[°C]	45±2
Temperature Coefficient Of Pmax	[%/°C]	-0.350
Temperature Coefficient Of Voc	[%/°C]	-0.275
Temperature Coefficient Of Isc	[%/°C]	0.045

Mechanical Properties

Cells	6 x 22
Cell Type	Monocrystalline
Cell Dimensions	182x 91 mm
Number of Busbar	10 (Multi Wire Busbar)
Dimensions (L x W x H)	2094 ± 2mm x1134 ± 2mm x 30mm ± 1mm
Front Load	5,400 Pa
Back Load	2,400 Pa
Weight	24.4 kg
Connector Type	MC4 Compatible
Junction Box	Split Junction Box (IP68 ,three diode)
Cables	4.0mm²,+1200mm,-1200mm Customized Length
Glass	Class II
Frame	Anodised Aluminium / Black anodised optional

* Please refer to the installation manual for the details

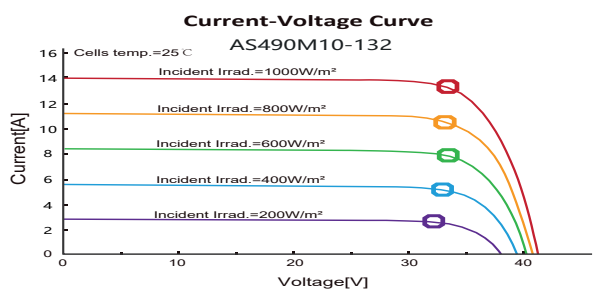
Certifications and Warranty

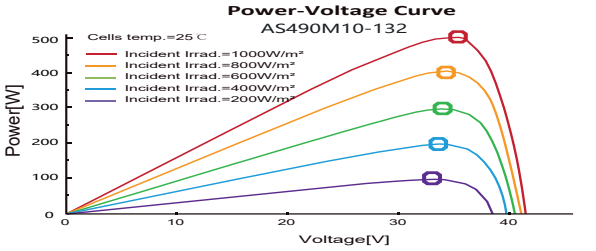
Certifications	UL 1703
	IEC 61215, IEC 61730-1/-2
	IEC 61701 SALT Corrosion
	IEC 62716 AMONIA Corrosion
	ISO 9001

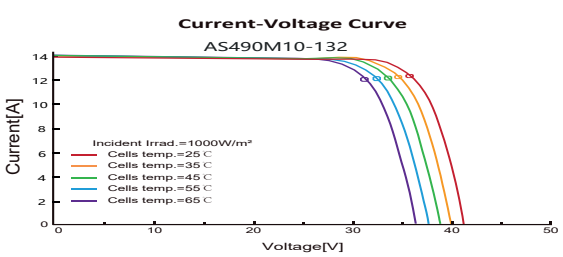
Product Warranty	30 Years
Output Warranty of Pmax	Linear Warranty*

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

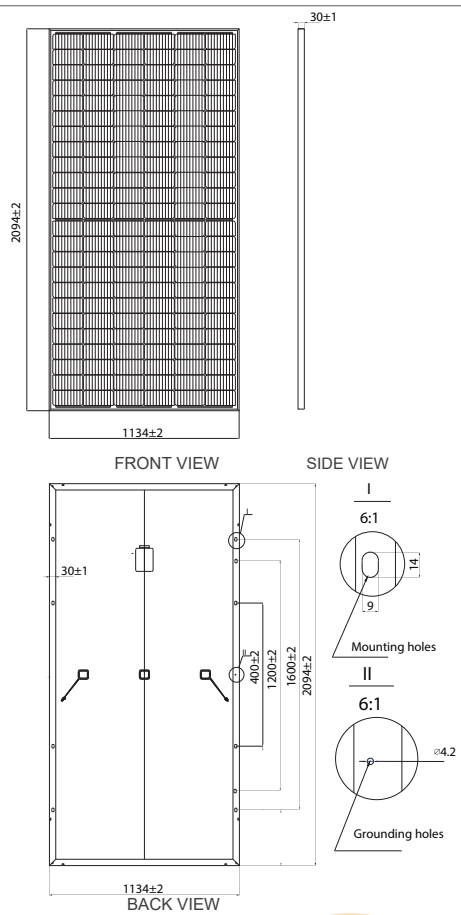
Characteristic Curves







Dimensions (mm)



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

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