

**430W | 435W**

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 21.50%) 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**



30-years Product Warranty



30-years 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 positionned at the leader on the market with innovation and commitment to the industry.

H7-415 | H7-420 | H7-425 | H7-430 | H7-435

### Electrical Properties (STC\*)

Maximum Power (Pmax)	[W]	415	420	425	430	435
MPP Voltage (Vmpp)	[V]	31.34	32.04	32.24	32.44	32.64
MPP Current (Impp)	[A]	13.04	13.11	13.18	13.26	13.33
Open Circuit Voltage (Voc)	[V]	37.95	38.15	38.35	38.55	38.75
Short Circuit Current (Isc)	[A]	13.74	13.80	13.86	13.92	13.98
Module Efficiency	[%]	21,25	21,51	21,76	22,02	22,28
Operating Temperature	[°C]	-40~+85				
Maximum System Voltage	[V]	VDC 1500				
Maximum Series Fuse Rating	[A]	25				
Number of Bypass Diodes		3				
Power Tolerance	[W]	0~+5				

The nameplate power output is measured and determined by elite-solar at its sole and absolute direction.

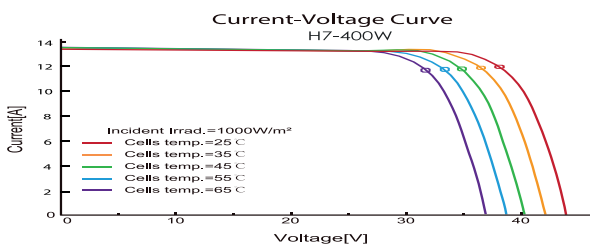
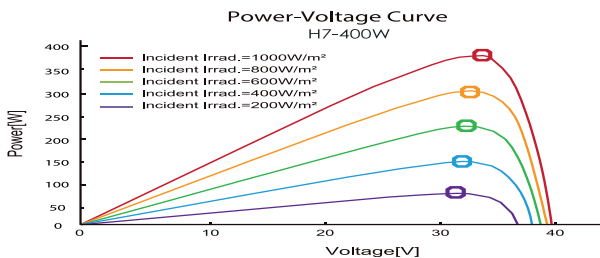
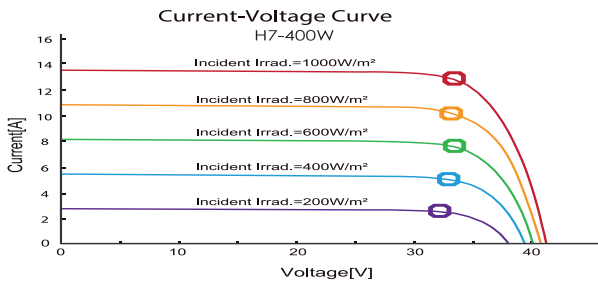
\* STC (Standard Test Condition): Irradiance 1.000W/m<sup>2</sup>, cell temperature 25°C, AM 1.5 (Measurement Tolerance ± 3%).

### Mechanical Properties

Cells	6 x 18
Cell Type	Monocrystalline
Cell Dimensions	182 x 91 mm
Number of Busbar	10 (Multi Wire Busbar)
Dimensions (L x W x H)	1722 ± 2 x 1134 ± 2 x 30mm ± 1
Max Static Load Front	5 400 Pa
Max Static Load, Back	2 400 Pa
Weight	21.0 kg ± 3%
Connector Type	MC4 Compatible
Junction Box	P68 ,three diode
Cables	4.0mm <sup>2</sup> ,+1200mm,-1 200mm Customized Length
Glass	3.2mm Tempered Low Iron Glass
Frame	Anodised Aluminium / Black anodised optional

\* Please refer to the installation manual for the details

### Characteristic Curves



### Electrical Properties (NOCT\*)

Maximum Power	[W]	312	316	320	324	328
MPP Voltage	[V]	29.78	29.97	30.16	30.35	30.54
MPP Current (Impp)	[A]	10.48	10.54	10.61	10.67	10.74
Open Circuit Voltage	[V]	36.06	36.24	36.42	36.60	36.78
Short Circuit Current	[A]	11.09	11.14	11.19	11.24	11.29

\* 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°C
Temperature Coefficient Of Pmax	[%/°C]	-0.350%/°C
Temperature Coefficient Of Voc	[%/°C]	-0.275%/°C
Temperature Coefficient Of Isc	[%/°C]	+0.045%/°C

### Certifications and Warranty

Certifications	IEC 61215, IEC 61730, IEC 62804
	IEC 61701 SALT Corrosion
	IEC 62716 AMONIA Corrosion
	ISO 9001, ISO 14001

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

### Dimensions (mm)

