

# 380W | 420W

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



## About Elite-Solar

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

H7-380 | H7-390 | H7-400 | H7-410 | H7-420

### Electrical Properties (STC\*)

|                             |      |          |       |       |       |       |
|-----------------------------|------|----------|-------|-------|-------|-------|
| Maximum Power (Pmax)        | [W]  | 380      | 390   | 400   | 410   | 420   |
| MPP Voltage (Vmpp)          | [V]  | 30.56    | 30.88 | 31.20 | 31.52 | 31.82 |
| MPP Current (Impp)          | [A]  | 12.43    | 12.63 | 12.82 | 13.01 | 13.20 |
| Open Circuit Voltage (Voc)  | [V]  | 36.31    | 36.61 | 36.91 | 37.21 | 37.22 |
| Short Circuit Current (Isc) | [A]  | 13.40    | 13.54 | 13.68 | 13.82 | 13.85 |
| Module Efficiency           | [%]  | 19.46    | 19.97 | 20.48 | 21.00 | 21.50 |
| 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.

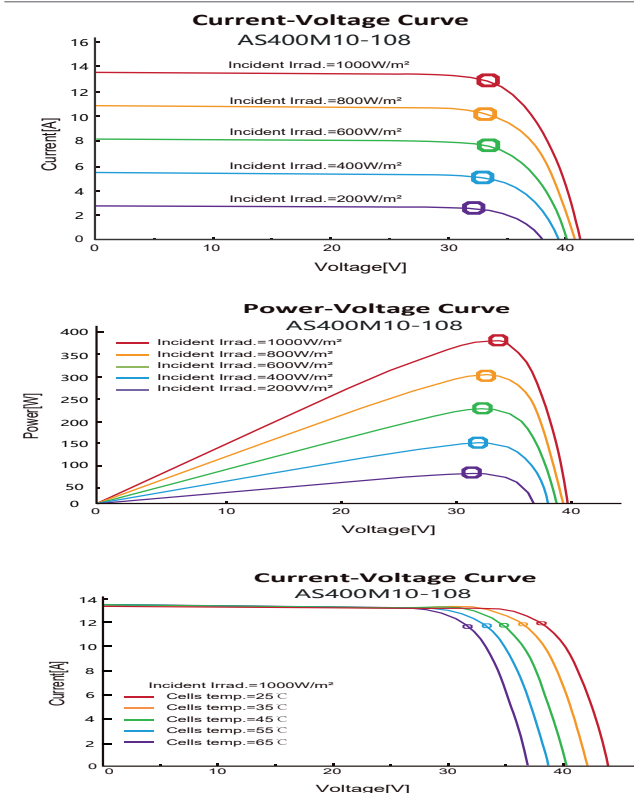
\* STC (Standard Test Condition): Irradiance 1.000W/m<sup>2</sup>, cell temperature 25°C, AM 1.5 (Measurement Tolerance ± 3%).

### 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 StaticLoad Front   | 5 400 Pa  |
| Max StaticLoad, Back   | 2 400 Pa  |
| Weight                 | 21.0 kg ± 3%  |
| Connector Type         | MC4 Compatible  |
| Junction Box           | P68, three diode                                      |
| Cables                 | 4.0mm <sup>2</sup> , +300mm, -300mm 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] | 286.3 | 293.8 | 301.3 | 308.9 | 316.4 |
|-----------------------|-----|-------|-------|-------|-------|-------|
| MPP Voltage           | [V] | 27.92 | 28.36 | 28.79 | 29.21 | 29.62 |
| MPP Current (Impp)    | [A] | 10.25 | 10.36 | 10.47 | 10.57 | 10.68 |
| Open Circuit Voltage  | [V] | 33.97 | 34.25 | 34.53 | 34.81 | 35.09 |
| Short Circuit Current | [A] | 10.82 | 10.93 | 11.04 | 11.16 | 11.27 |

\* 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        | 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)

