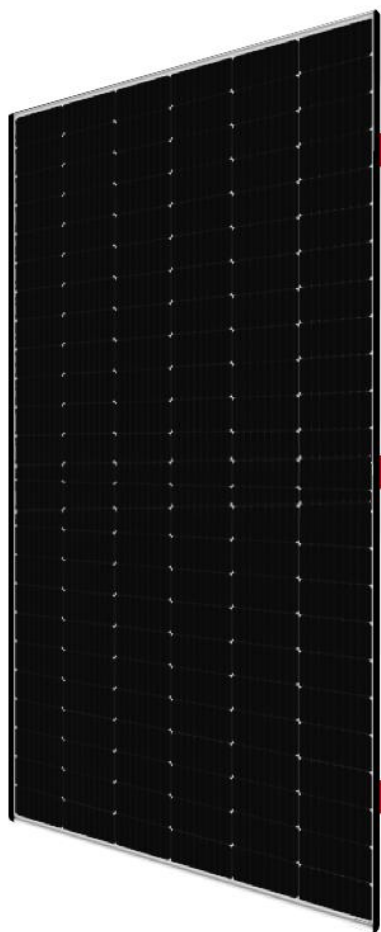




## SMART SERIES

GLASS-GLASS BIFACIAL MODULE / BLACK or TRANSPARENT / 340Wp / FRAMELESS / SMART EDGE FIXING SYSTEM



**HIGH EFFICIENCY**  
SUNAGE SBC M6 Half Cut Cells Technology



**ANTI-GLARE FINISH**



**EXTRA POWER**  
80 % Cell Bifaciality factor



**HIGH RESISTANCE - SWISS QUALITY**  
3 + 3 Glass-Glass Module



**HIGH BRIGHTNESS** (only for transparent one)  
Transparent Module



**EXCELLENT ANTI PID PERFORMANCE**



**LONG LASTING PERFORMANCE**  
Linear decay < 80% in 25 years



**CERTIFICATE**  
IEC 61215 1/1-1/2  
EN 61730 1/2



**SMART EDGE FIXING SYSTEM**



**WARRANTY**  
12 YEARS on factory defects

Immagine rappresentativa /representative image

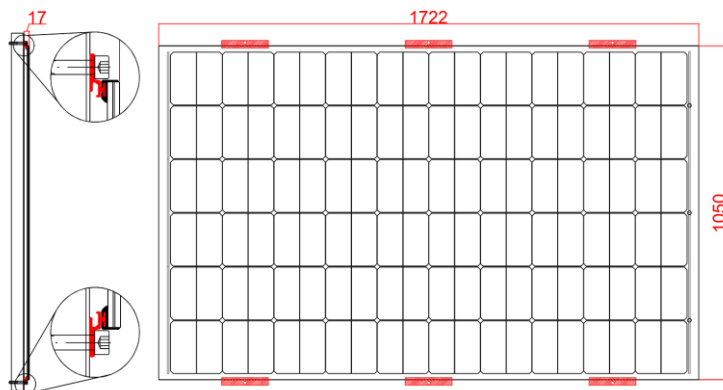
### Caratteristiche tecniche / Technical features

| Tipo di celle        | Type of cells    | Celle mono 166x83 mm - SBC M6 half-cut                                 |
|----------------------|------------------|------------------------------------------------------------------------|
| N° celle modulo      | No. cells module | 120                                                                    |
| Front                | Front            | Vetro satinato 3 mm anti abbagliamento/<br>Satin anti glare 3 mm glass |
| Back                 | Back             | Vetro float 3 mm /<br>Float 3 mm glass                                 |
| Incapsulante         | Encapsulant      | EVA                                                                    |
| Sistema di fissaggio | Fixing system    | Smart Edge Fixing System                                               |
| Junction box         | Junction Box     | IP67                                                                   |
| Diodi                | Diodes           | 3 Diodi di Bypass / 3 Bypass diodes                                    |
| Connettori           | Connectors       | MC4 Original                                                           |
| Cavi                 | Cables           | 1000 mm L - 4.0mm2 sezione/section                                     |

SECTION

FRONT SIDE

Tolleranza misure +/- 2%



### Caratteristiche elettriche/Electrical features @STC [Irradiance 1000 W/mq, Module Temperature 25° C, AM 1.5]

|                                   |                                  |      |               |
|-----------------------------------|----------------------------------|------|---------------|
| Potenza nominale                  | Nominal power                    | Wp   | 340           |
| Tolleranza                        | Tolerance                        | Wp   | +/- 3%        |
| Tensione di max potenza (Vmp)     | Voltage at max power (Vmp)       | V    | 71.16         |
| Corrente di max potenza (Imp)     | Current at max power (Imp)       | A    | 4.78          |
| Tensione di circuito aperto (Voc) | Open circuit voltage (Voc)       | V    | 82.03         |
| Corrente di corto circuito (Isc)  | Short circuit current (Isc)      | A    | 5.54          |
| FF                                | FF                               |      | 0.75          |
| Tensione di sistema               | System voltage                   | V    | 1000          |
| Massima corrente inversa          | Max reverse current              | A    | 20            |
| NOCT                              | NOCT                             | °C   | 60            |
| Coeff. temp. potenza (Pmax)       | Temperature coeff. power (Pmax)  | %/°C | -0.3          |
| Coeff. temp. tensione (Voc)       | Temperature coeff. voltage (Voc) | %/°C | -0.268        |
| Coeff. temp. corrente (Isc)       | Temperature coeff. current (Isc) | %/°C | 0.042         |
| Temperatura di funzionamento      | Operating temperature            | °C   | -40 °C +85 °C |

### Caratteristiche fisiche / Physical characteristics

|                          |                    |                     |
|--------------------------|--------------------|---------------------|
| Peso modulo (kg)         | Module weight (kg) | 28                  |
| Carico neve (Pa)         | Snow load (Pa)     | 2400                |
| Carico vento (Pa)        | Wind load (Pa)     | 2400                |
| Resistenza alla grandine | Anti-hail module   | Ø 35 mm; 97 Km/h    |
| Dimensioni               | Dimensions         | 1722 x 1050 x 17 mm |

Si precisa che i dati tecnici, le informazioni e le raffigurazioni riportate nel presente documento mantengono un valore puramente indicativo. Sunage si riserva in qualsiasi momento e senza preavviso di modificare i dati, i disegni e le informazioni riportate nel presente documento.

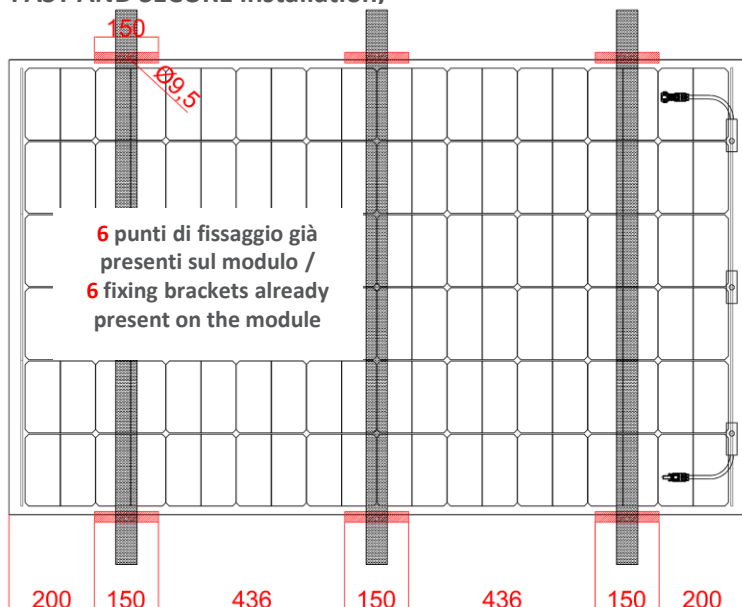
Per una corretta e sicura installazione consultare il manuale "sicurezza e installazione" Sunage

\*\*\*Le specifiche elettriche sono misurate in condizioni Standard STC (1000 W/mq, 1.5 Air Mass Spectrum, temperature delle celle 25°C); il modulo di riferimento utilizzato per tarare il nostro Sun Simulator è stato calibrato dall'Università SUPSI di Lugano e la taratura è controllata giornalmente. La precisione delle misure dichiarate è funzione della tolleranza di calibrazione del modulo di riferimento e della tolleranza del nostro Sun Simulator. Please note that the technical data, information and images contained herein shall be for reference only. Sunage reserves at any time and without notice to modify the data, drawings and the information contained herein. In order to correctly and safely install the modules please refer to Sunage Installation Manual.

\*\* The electrical specifications are measured under STC conditions (1000 W/sqm, 1.5 Air Mass Spectrum, cells temperature 25°C); the reference module used to set our Sun Simulator has been calibrated by SUPSI University. The accuracy of the given figures is a function of the calibration tolerance of the reference module and of the guaranteed performances of our Sun Simulator.

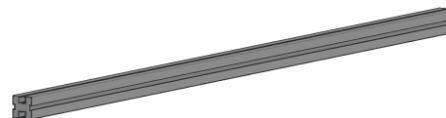
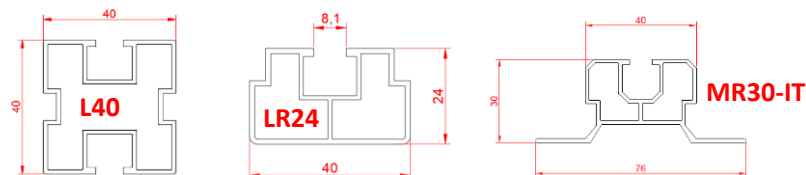
## SMART EDGE FIXING SYSTEM

SUNAGE SMART fixing system already equipped on the PV module  
FAST AND SECURE installation,



SUNAGE SMART EDGE fixing system is compatible with the most commonly used aluminum profiles used in PV plant installations. SUNAGE can **separately** offer also these components:

- Aluminum profiles



- Bolts M8x16 & Self-Locking M8 Nuts inox A2



Profilo a L per garantire extra resistenza e massima impermeabilità /  
L profile to guarantee extra resistance and maximize waterproofing

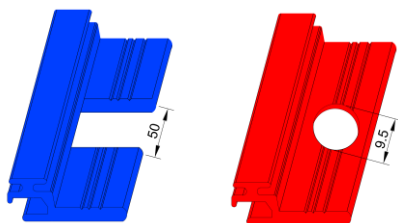
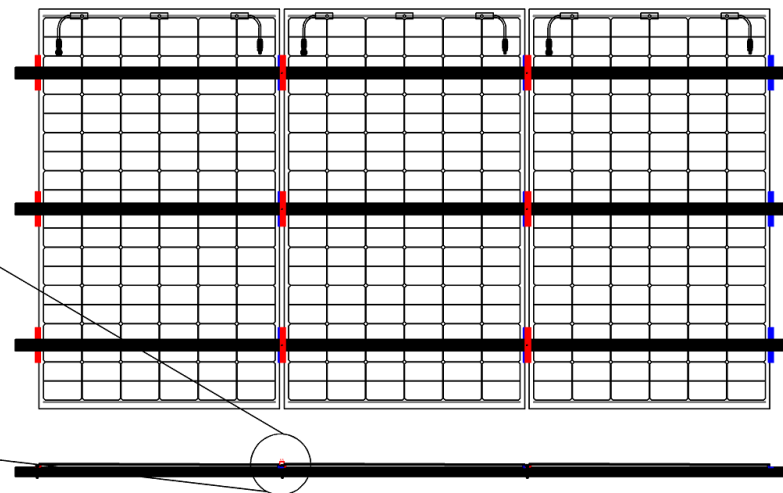
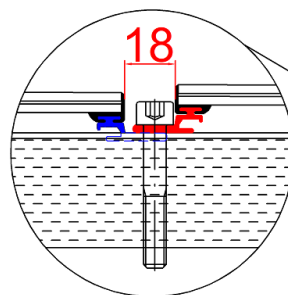
Staffa di fissaggio mobile per garantire un fissaggio rapido /  
Mobile fixing bracket for a fast assembly

Sistema compatibile con tutti i classici profili di alluminio per fotovoltaico –  
NON INCLUSO (offerto separatamente) /  
System compatible with all the classic aluminum profiles for photovoltaics –  
NOT INCLUDED (offered separately)

## SMART EDGE FIXING SYSTEM

TWO FIXING OPTIONS AVAILABLE – DISTANCE BETWEEN MODULES CAN BE ADJUSTED ACCORDING TO SPECIFIC NEEDS

### OPTION 1 – SMALL GAP BETWEEN THE MODULES – 18 MM



- Fixed brackets with hole for the M8 bolts are equipped on the left-long side of each PV module (**RED**).
- Sliding brackets with custom design are equipped on the right-long side of each PV module. This special design allows for perfect matching with the aluminum profile positioned below (notch of 50 mm) (**BLUE**)

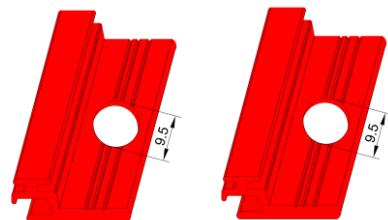
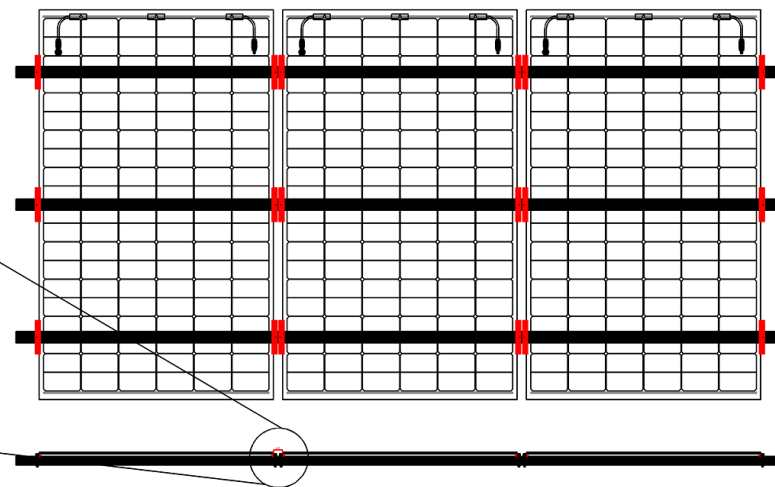
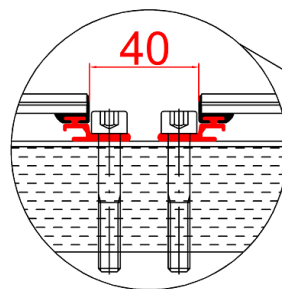
The PV modules on the right will keep in position also the adjacent panel on the left.

This fixing method guarantees the mechanical properties listed in this document and ensure 18 mm gap between PV modules.

## SMART EDGE FIXING SYSTEM

TWO FIXING OPTIONS AVAILABLE – DISTANCE BETWEEN MODULES CAN BE ADJUSTED ACCORDING TO SPECIFIC NEEDS

### OPTION 2 – LARGER GAP BETWEEN THE MODULES – 40 MM



- Fixed brackets with hole for the M8 bolts are equipped on both the long sides of each PV module (**RED**).

Each PV module will be fixed on both the edges. Thermal expansions will be granted by the larger diameter of the holes wrt the M8 bolt used. This fixing method guarantees the mechanical properties listed in this document and ensure 40 mm gap between PV modules.