# SolarGaps

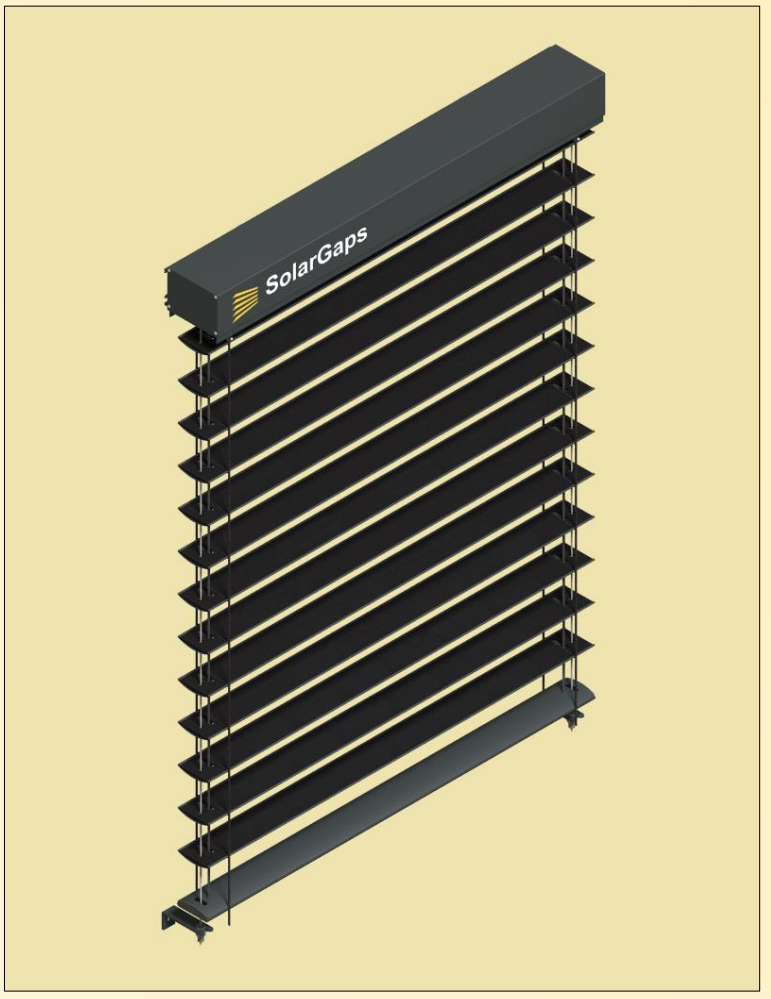
Product information

# Product information

## Model range


SGV1-R

Solar blinds consist of solar panels connected by rigid guides, which provides reliable fastening even in strong winds.




SGV1-W

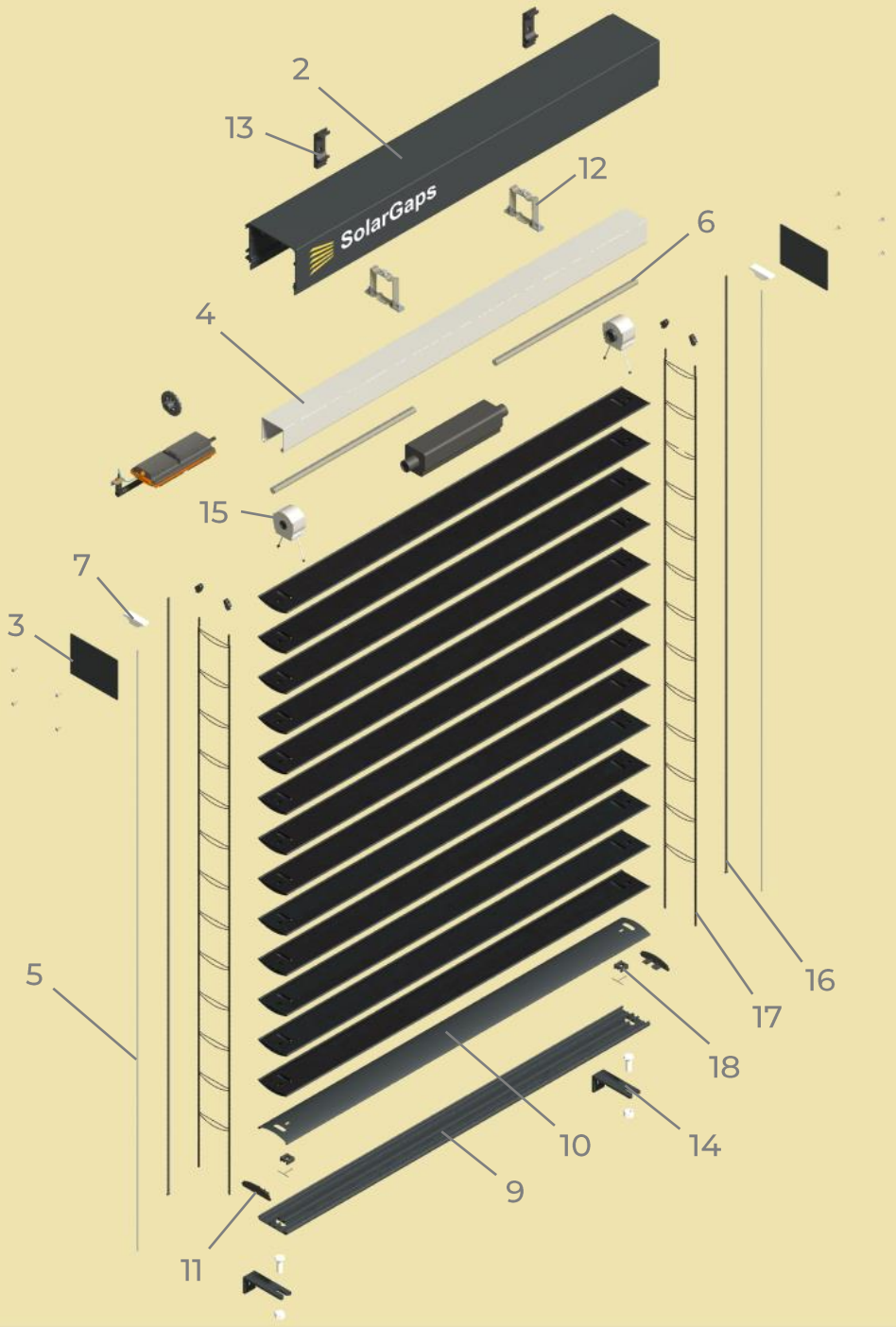
Solar blinds **SGV1-W** consist of solar panels connected by a strong steel cable, which provides simplicity and reliability of installation on a window.

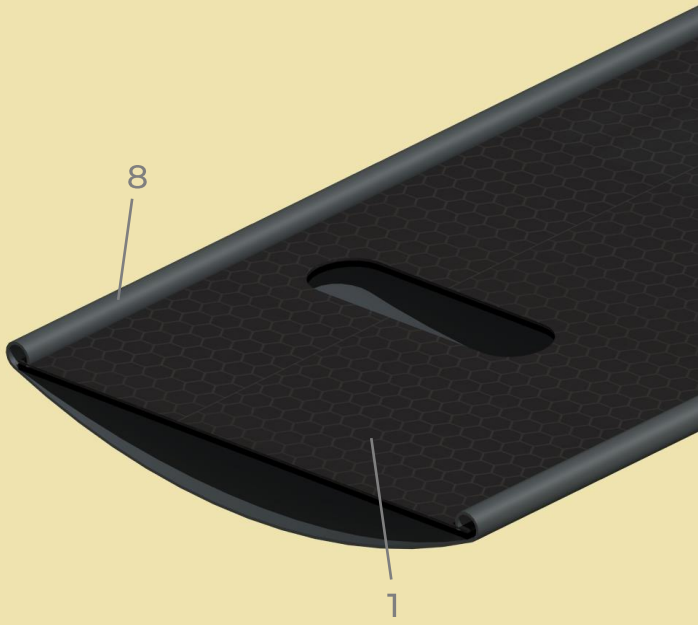
**SolarGaps** blinds are designed only for the external (outdoor) installation.
Solar panels built into the Venetian blinds convert solar energy into electricity.
Blinds provide effective protection from the sun and heat and keep your apartment or office private.

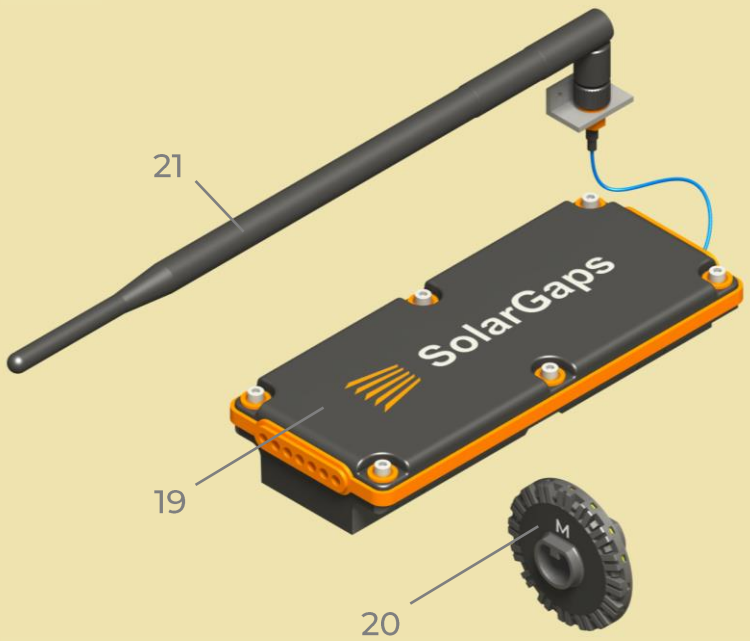
The system is connected to the electrical grid through the inverter that transforms solar power into electricity. This, in turn, means the amount of energy used from your electrical providers will be reduced by the amount of electricity generated by the blinds.

Product information

# SGV1-W parts list



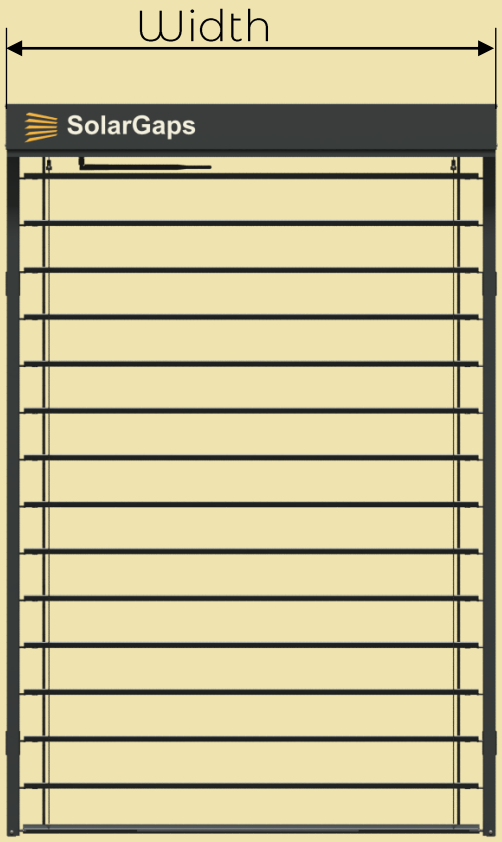



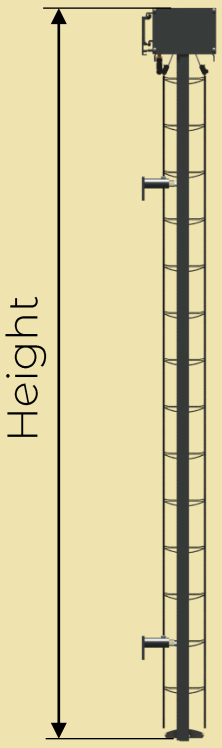

| Item № | Description | Item № | Description |
|---|---|---|---|
| 1 | Solar panel | 13 | QM Box bracket to wall |
| 2 | QM Box | 14 | Mounting Bracket |
| 3 | QM box side panel | 15 | Reel |
| 4 | Head Rail | 16 | Lifting thread |
| 5 | Rope | 17 | Ladder String |
| 6 | Shaft | 18 | Lifting thread holder |
| 7 | Shell | 19 | PCB box |
| 8 | Lamella | 20 | Ring |
| 9 | Bottom Rail | 21 | Antenna |
| 10 | Bottom Lamella | | |
| 11 | Bottom rail side panel | | |
| 12 | Head Rail Holder bracket | | |

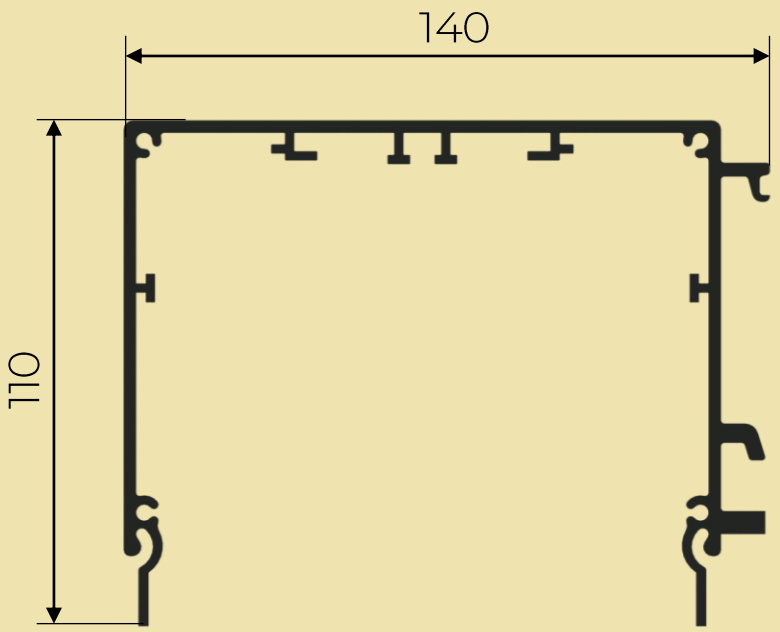
SolarGaps

# Product information

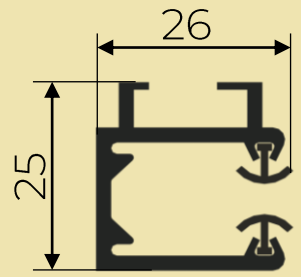
## Dimensions of blinds

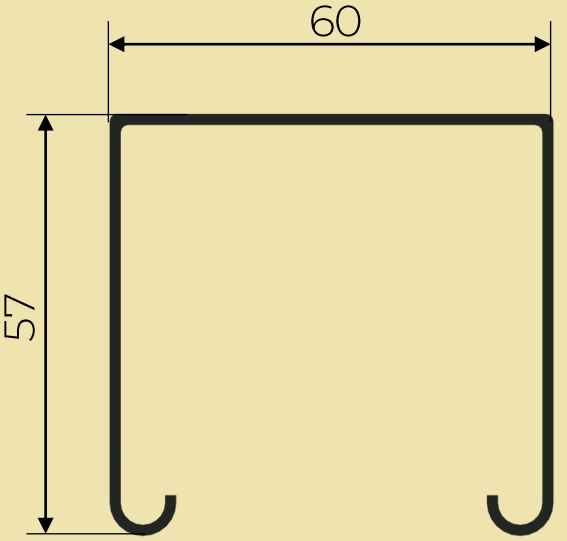






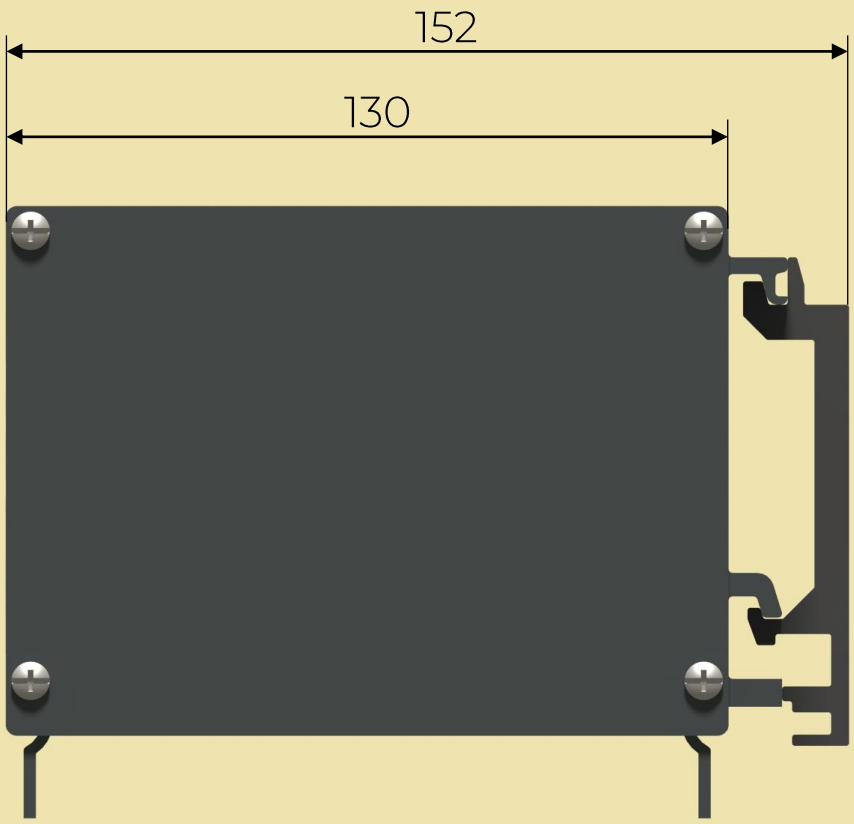



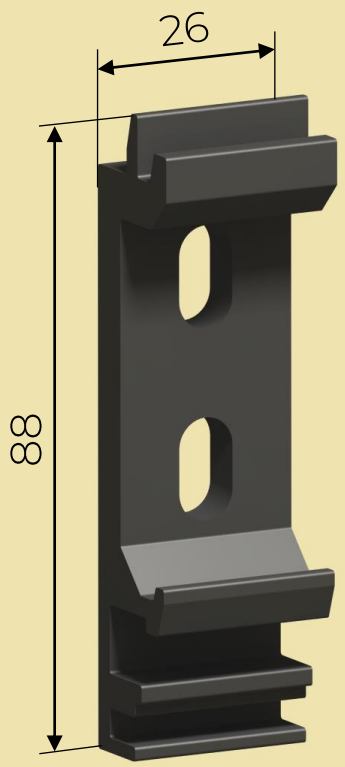

| Recommended Sizes | |
|---|---|
| Minimum size | 80cm x 80cm |
| Maximum width | 260cm |
| Maximum height | 400cm |

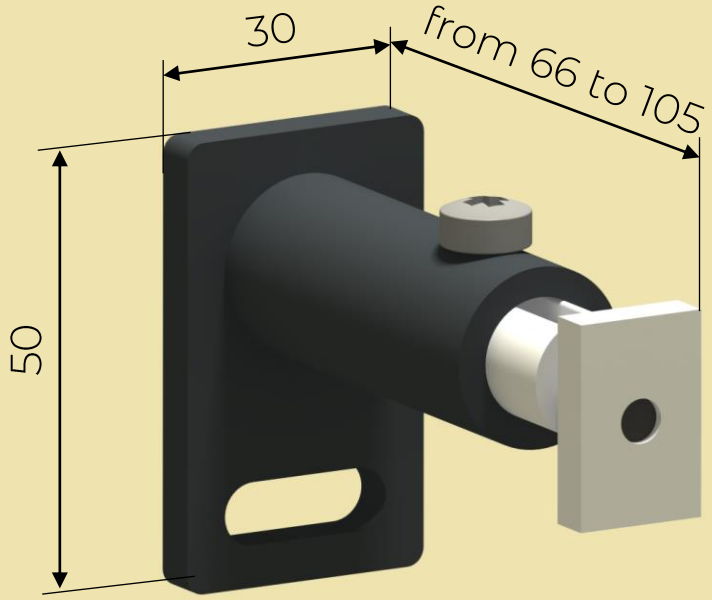
SolarGaps

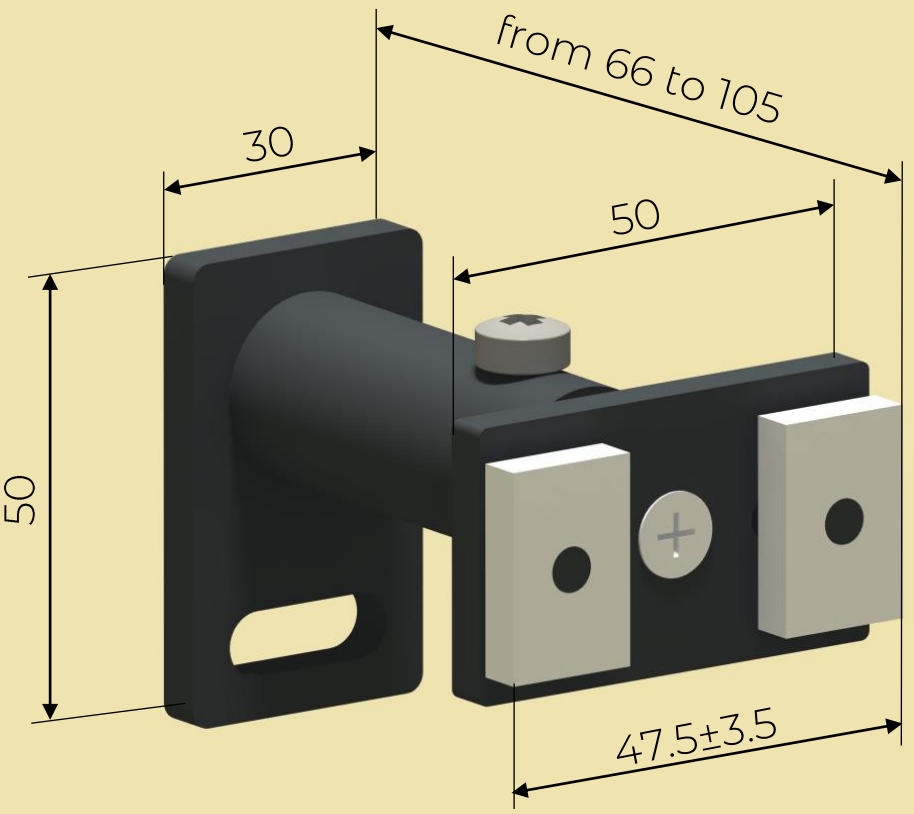
# Product information

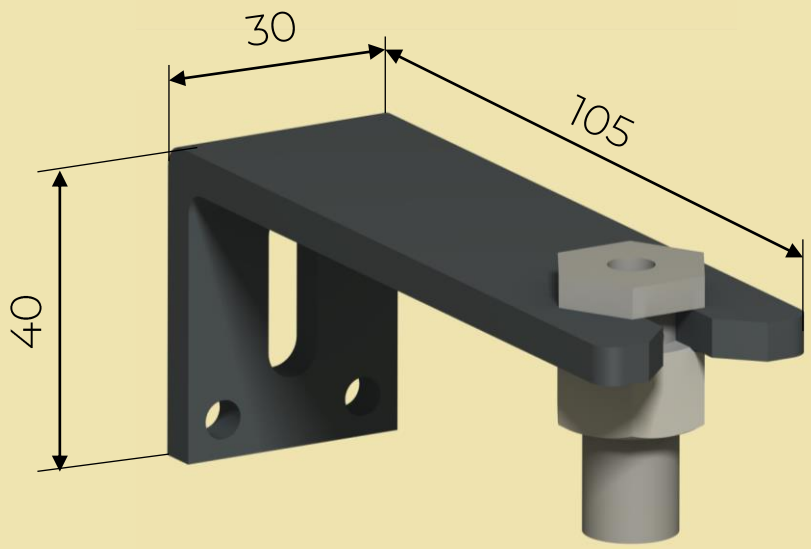
## Mounting parts



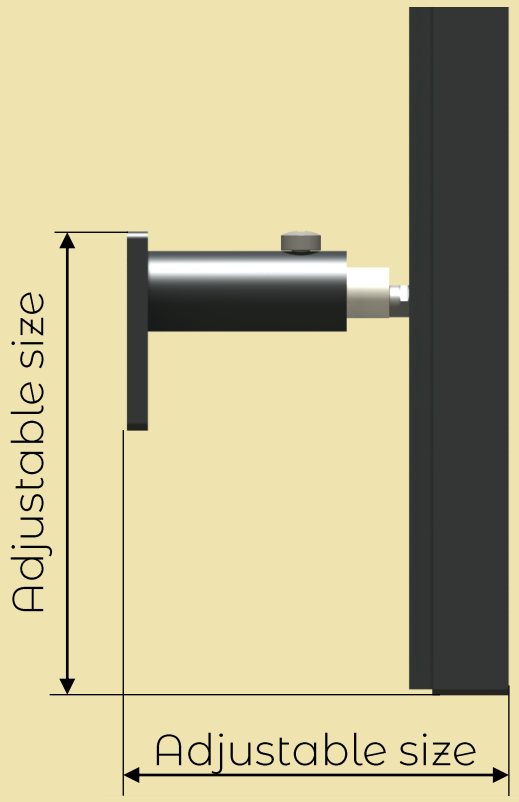



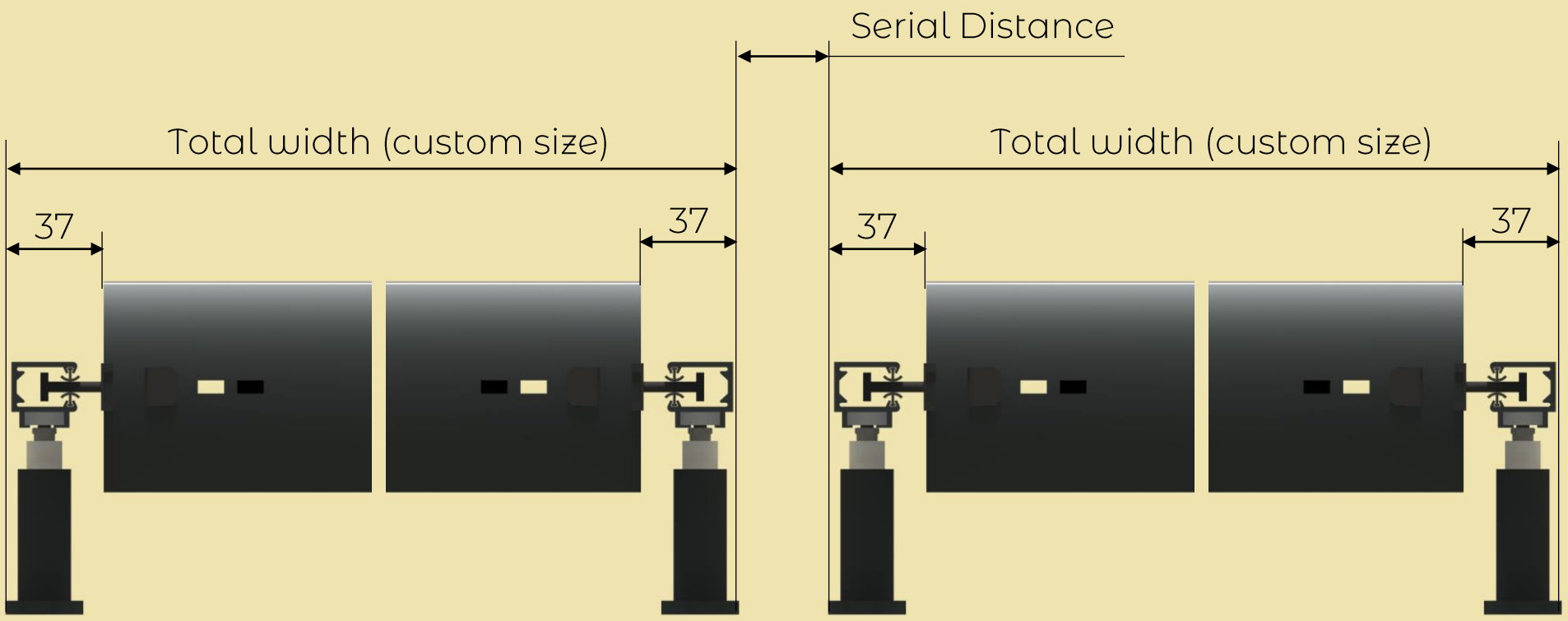



# Product information

## Installation

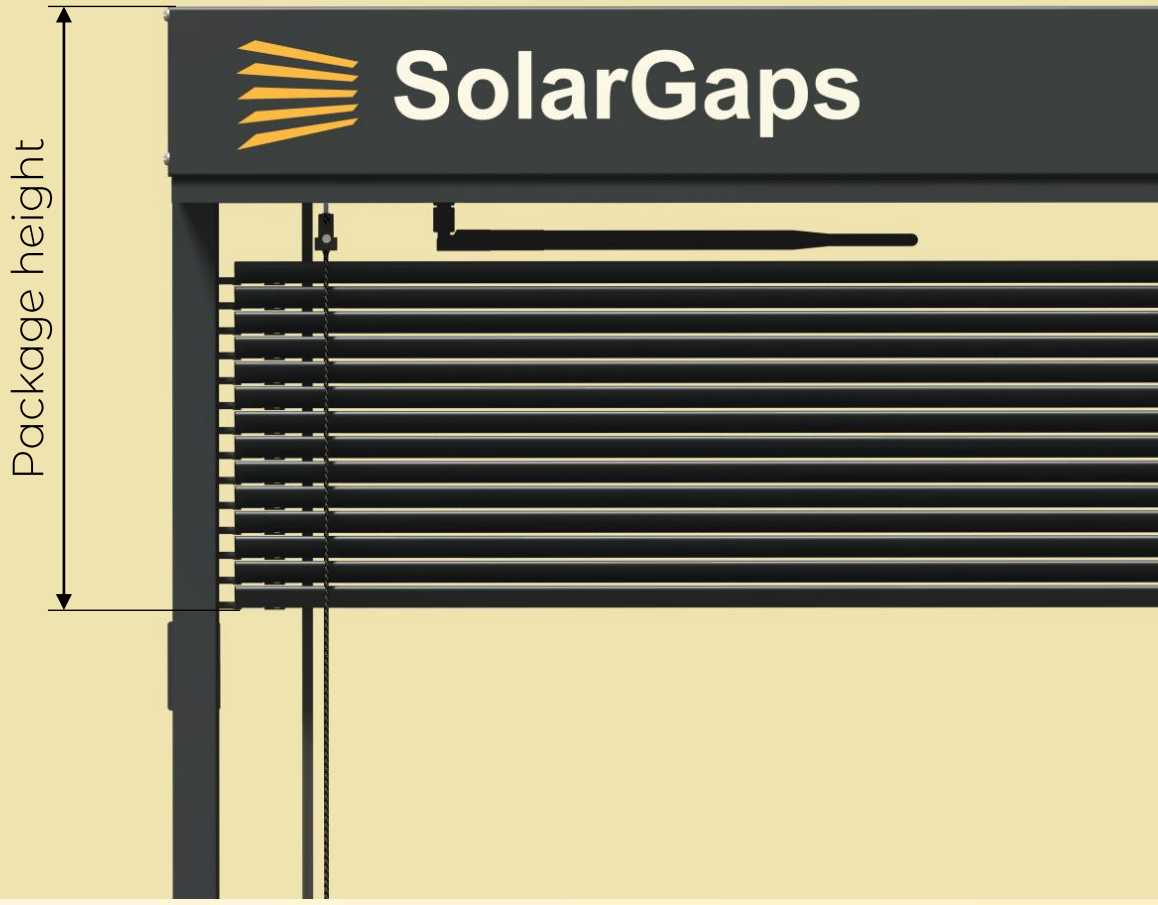



# Product information

## Package height

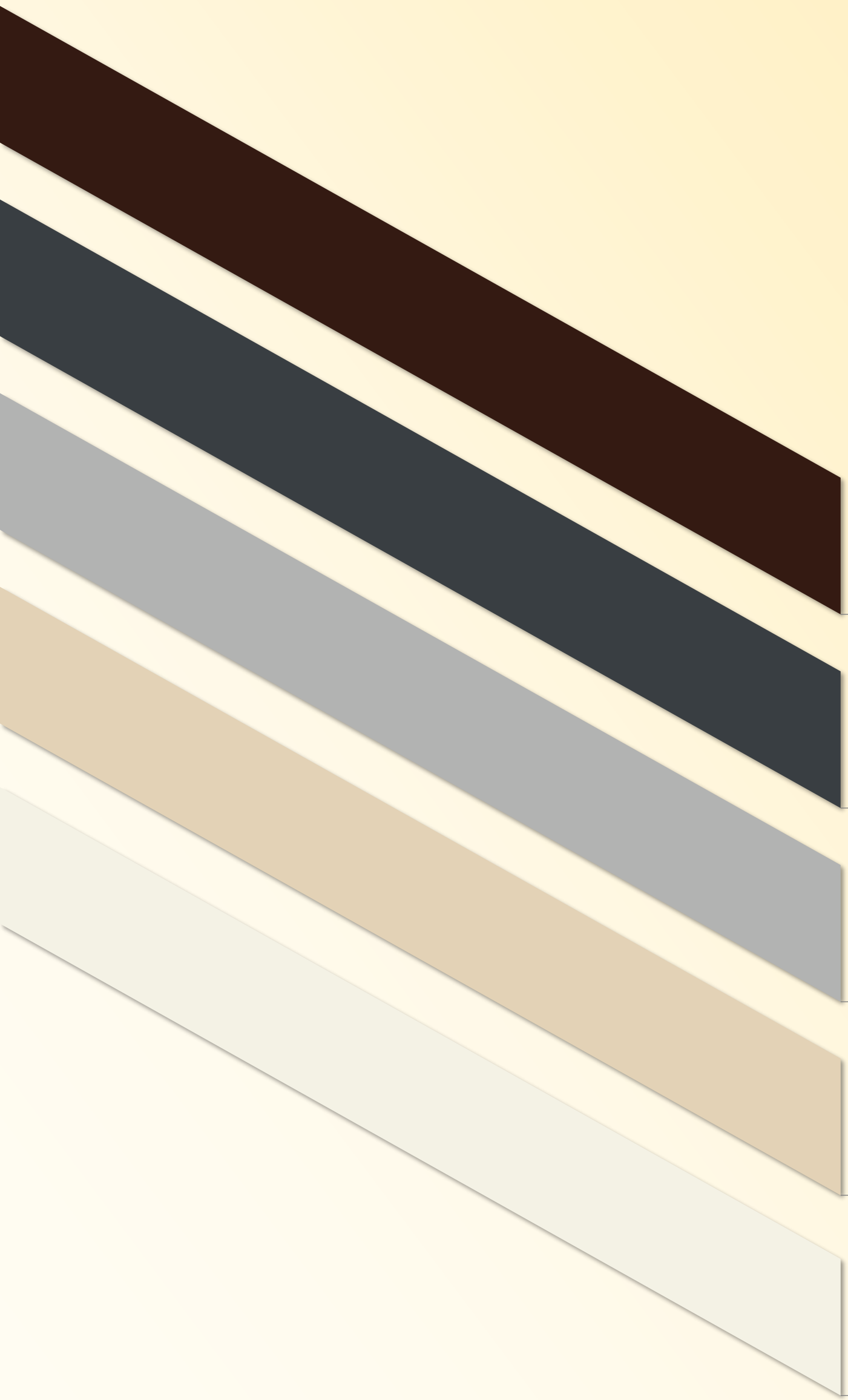
The height of the package can be adjusted between -20mm and +30mm




| Height of the blinds | Package height | Quantity of lamellae | Height of the blinds | Package height | Quantity of lamellae |
|---|---|---|---|---|---|
| 800 | 186 | 8 | 2500 | 305 | 25 |
| 900 | 193 | 9 | 2600 | 312 | 26 |
| 1000 | 200 | 10 | 2700 | 319 | 27 |
| 1100 | 207 | 11 | 2800 | 326 | 28 |
| 1200 | 214 | 12 | 2900 | 333 | 29 |
| 1300 | 221 | 13 | 3000 | 340 | 30 |
| 1400 | 228 | 14 | 3100 | 347 | 31 |
| 1500 | 235 | 15 | 3200 | 354 | 32 |
| 1600 | 242 | 16 | 3300 | 368 | 34 |
| 1700 | 249 | 17 | 3400 | 375 | 35 |
| 1800 | 256 | 18 | 3500 | 382 | 36 |
| 1900 | 263 | 19 | 3600 | 389 | 37 |
| 2000 | 270 | 20 | 3700 | 396 | 38 |
| 2100 | 277 | 21 | 3800 | 403 | 39 |
| 2200 | 284 | 22 | 3900 | 410 | 40 |
| 2300 | 291 | 23 | 4000 | 417 | 41 |
| 2400 | 298 | 24 | | | |

Product information

# Color range



BROWN

ANTHRACITE

GREY METALLIC

BEIGE

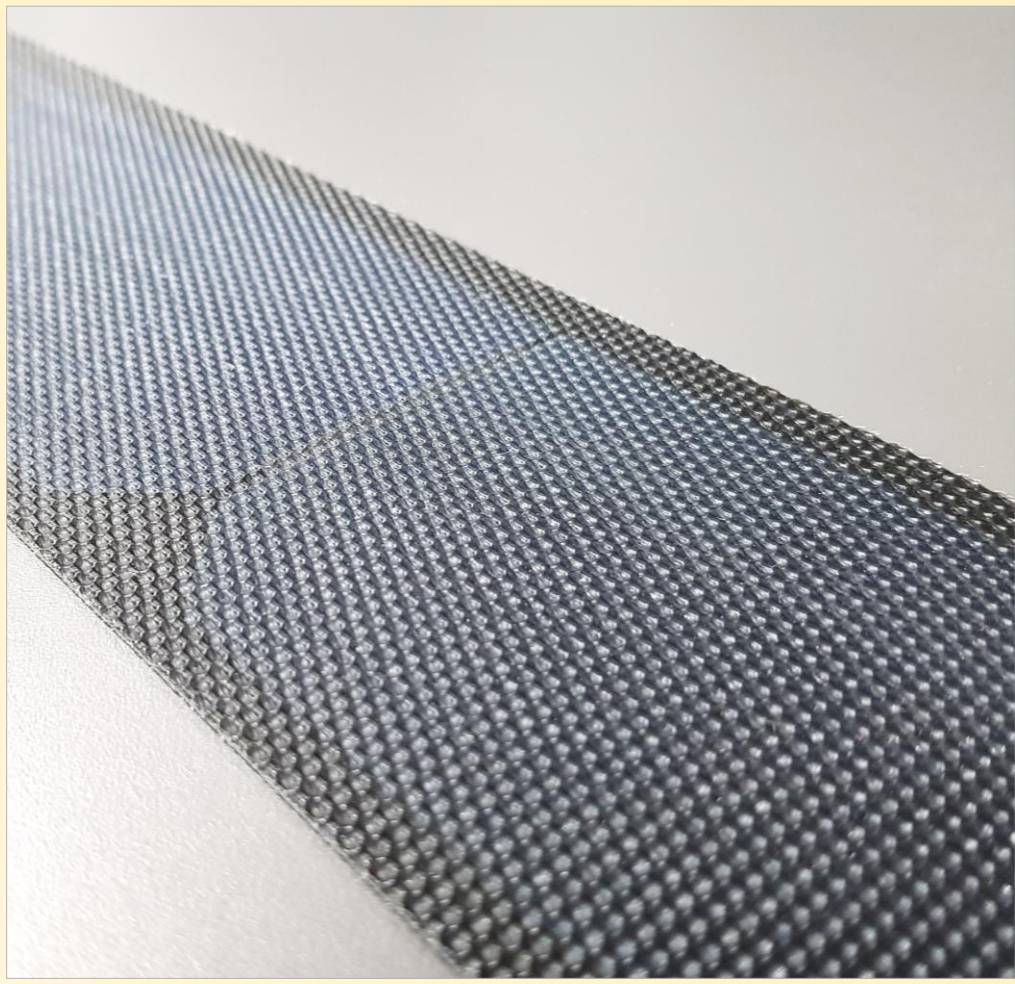
WHITE

SolarGaps

# Product information
# Technical specification

**Solar**

- Solar panels are built into the C-shaped aluminum slats (C-80).
- Solar panels are made of monocrystalline cells laminated on fiberglass base.
- SolarGaps use the following cells: Half (1/2) of A grade Sunpower C60 Maxeon with 22.4% Efficiency.
- Solar panels have dust-protected cover ETFE (rectangular grid shape, matt black) that makes solar cell shape almost invisible on building facades.



**Energy**

- Power supply & grid compatibility: 110 / 220 /230 V AC, 60 / 50 Hz
- Energy generation per 1 m²: 100 W (at maximum solar radiation)

**IP CLASS (dust and water resistance):** 54

**Wind resistance:** class 2

**Total solar energy transmittance gtot:** 0,11

(11% of sun radiation/heat passes trough blinds)

**Temperature working range:**

From -20°C to 60°C (20% humidity)

From -10°C to 40°C (80% humidity)

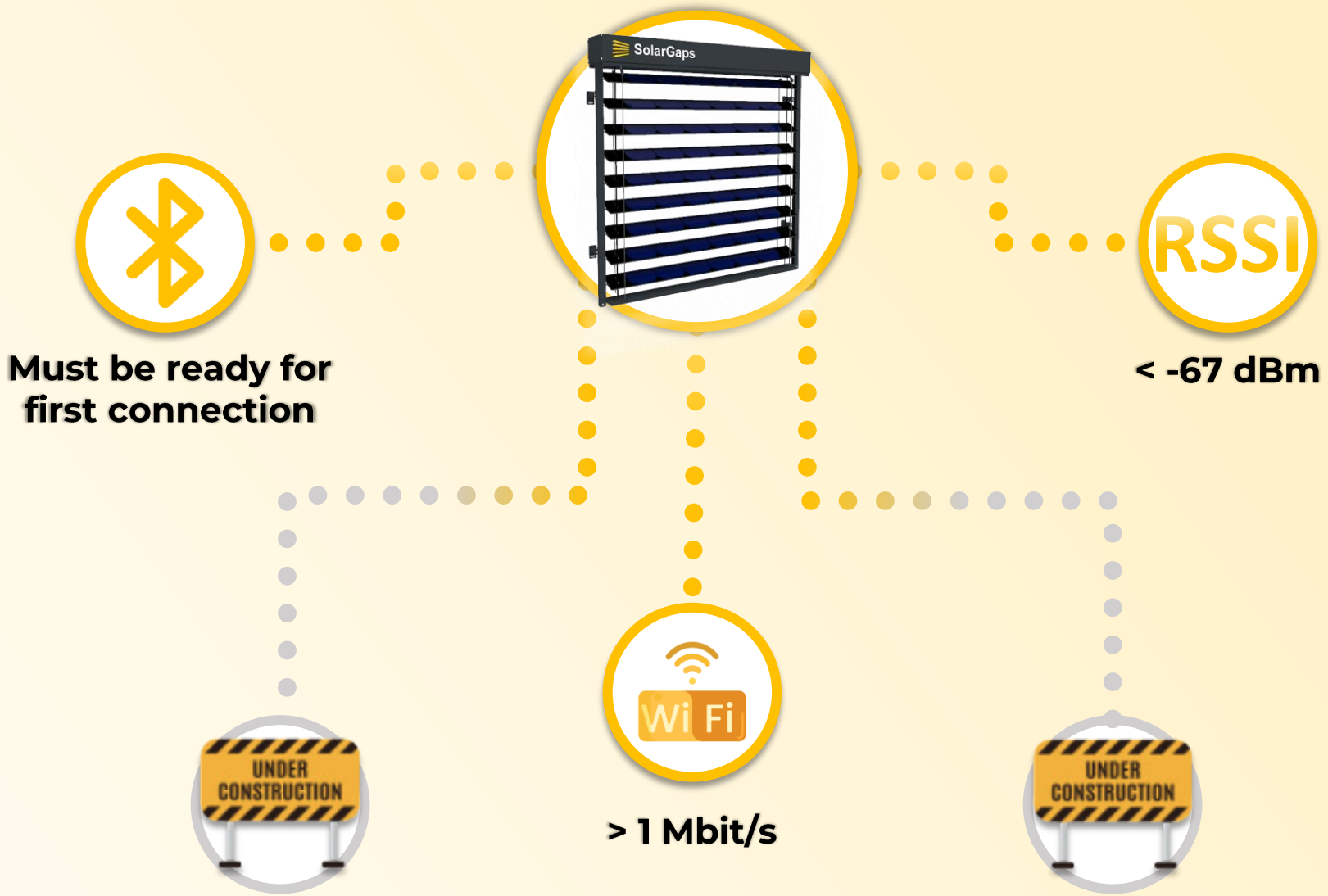
**Installation:**

Blinds should be installed only in vertical position and externally (outdoors) due to the fact that solar panels should be exposed to the direct sunlight.

Motor thermal overload protection = 4min

Product information

# Connection requirements




| Connection requirements | | | |
|---|---|---|---|
| WiFi b/g/n 2.4GHz | Bluetooth (when setup) | Min speed for correct work must be 1Mbit/s | RSSI signal strength from -40dbm to -68dbm |

Micro-controller doesn't support: Radius-server, WPA2-Enterprise