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Solar shelter for urban furniture with charging h617_29

Aluminum shelter with e-bike charging, solar panels, UV painted. Dimensions: 273 x 223 x 239.7 cm

The **photovoltaic shelter for urban furniture** is an advanced solution designed for **sustainable mobility in public spaces**, such as cycle paths, urban parking lots, rest areas, or green zones. Made of **powder-coated anticorodal aluminum**, it is designed to **withstand atmospheric agents** and exposure to **UV rays**.

The roof houses a structure dedicated to **monocrystalline solar panels** and a **rear gutter** for water drainage. The integrated rack allows for the **charging of 6 e-bikes or electric scooters** via **6 IP65 schuko sockets**, protected and safe for outdoor use.

The entire system is supported by a **2.4 kWh photovoltaic accumulator**, an **MPPT charge controller**, and an **inverter** for stable energy distribution. The product **complies with international IEC and CEI standards** for safety and quality, and is supplied with a **declaration of suitability and conformity**.

The shelter arrives **closed** and must be **installed by qualified personnel** on a solid and linear surface (e.g., concrete plinth). Opening and anchoring must be performed **only after the base has consolidated**, with the possible use of a **truck with crane**. The product is usable **only after installation (not included).** It does not require extraordinary maintenance.

Choose an efficient and sustainable solution for your urban furniture. **Request a personalized quote now.**

Technical characteristics:

- **Supporting structure:** Anticorodal aluminum with 200x100 mm tubes, 3 mm thickness
- **Roof reinforcement crossbeams:** 80x80 mm tubes, 3 mm thickness
- **Drainage gutter:** Rear for rainwater runoff
- **Upper cover:** In sheet metal for panel housing
- **Painting:** Powder-coated, resistant to weather and UV rays (matte RAL 7016)
- **Open dimensions:** L.273 x D.223 x H.239.7 cm
- **Closed dimensions:** L.273 x D.90.6 x H.226.7 cm
- **Weight:** 220 kg
- **Electric charging:** 6 IP65 8 A schuko sockets - 230 V – 50 Hz
- **Electrical panel:** 3 magneto-thermal circuit breakers of 0.03 MA – 16 A
- **Cables used:**
    - Sockets: single-core FS17 cable sect. 2.5 mm²
    - Panel connection: neoprene cable H07RNF3G4.00.B 450/750V -25/+60°C
- **Solar panels:** 2 monocristalline modules of 435 Wp
    - **Regulations:** IEC 61215 – IEC 61730
    - **Maximum power:** 435 Wp
    - **Voc:** 38.4 V | **Isc:** 14.31 A
    - **Vmp:** 32.0 V | **Imp:** 13.60 A
    - **Power tolerance:** 0 ~ +5 W
- **Photovoltaic accumulator:** 24 V – 100 Ah – 2.4 kWh nominal
- **Certifications:** IEC 60900:2004, CEI EN 61008, Fire resistance classification UL790 (panels)

Benefits for the user:

- Permanent installation for urban spaces
- Autonomous charging with renewable energy
- Solid and weather-resistant structure
- No extraordinary maintenance
- Product compliant with international standards

FAQ – Frequently Asked Questions

1. **Is the product ready for use upon delivery?**
   No, the shelter is supplied **closed** and must be **installed** on a solid and flat surface. Opening must be performed only after the anchoring has consolidated and by qualified personnel.
2. **Is a connection to the power grid required?**
   No, the system works in **total energy autonomy**, thanks to the **photovoltaic panels** and the included **storage system**.
3. **Are the charging sockets suitable for outdoor use?**
   Yes, the schuko sockets have an **IP65 protection rating**, so they are resistant to dust and water splashes.
4. **How many bicycles or scooters can it charge?**
   It can charge **up to 6 bikes/scooters.**
5. **Is maintenance required?**
   No **extraordinary maintenance** is required. During the winter months, it is recommended to **cover it** if not in use.
6. **What certifications does the product have?**
   The product complies with **IEC 60900:2004**, **CEI EN 61008**, **IEC 61215**, **IEC 61730** standards, and has a **declaration of suitability and conformity**.
7. **Is DIY installation possible?**
   No, the **intervention of qualified technicians is necessary**. Opening may require the use of a truck with a crane (installation not included).

Mini buying guide

If you are considering the purchase of a photovoltaic shelter for your municipality, company, or public body, here is some useful advice for choosing the most suitable solution:

First of all, **evaluate the space available** for installation: this shelter has significant dimensions in both depth and height. It is essential that the surface is **solid, flat, and prepared for anchoring**, such as a concrete base. If it is not already present, it will be necessary to create a **plinth** following the manufacturer's technical instructions.

Verify that your project requires an **energy-autonomous structure**: thanks to the solar panels and the accumulator, this shelter **does not require a connection to the power grid** and can be positioned anywhere, even in remote areas or those not served by infrastructure.

Finally, consider the intended use: if it is a high-traffic area or a cycle path, the **presence of 6 IP65 protected schuko sockets** and **integrated racks** makes it a **functional, robust urban charging station** ready to meet the needs of electric mobility in the city.

photovoltaic shelter for urban furniture, *solar shelter for e-bike charging*, *urban shelter with solar panels*, *electric scooter charging shelter*, *powder-coated aluminum shelter*, *public shelter with IP54 sockets*, *sustainable shelter for smart cities*

**Image purely indicative.*

**Additional colors can be requested upon quotation.*

**Upon receipt of goods, the customer must be provided with a forklift for unloading the shelter.*

**Installation excluded*

INFORMATION

- **Number of Sockets/Chargers** 6
- **Length in millimetres** 2730.000000
- **Height in millimetres** 2397.000000
- **Operation** Accesso libero
- **Depth in millimetres** 2230.000000
- **Strengths** Con pannelli solari

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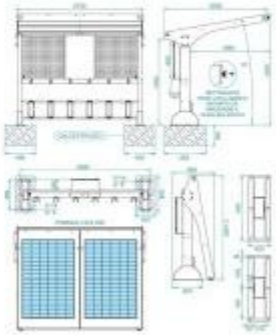

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