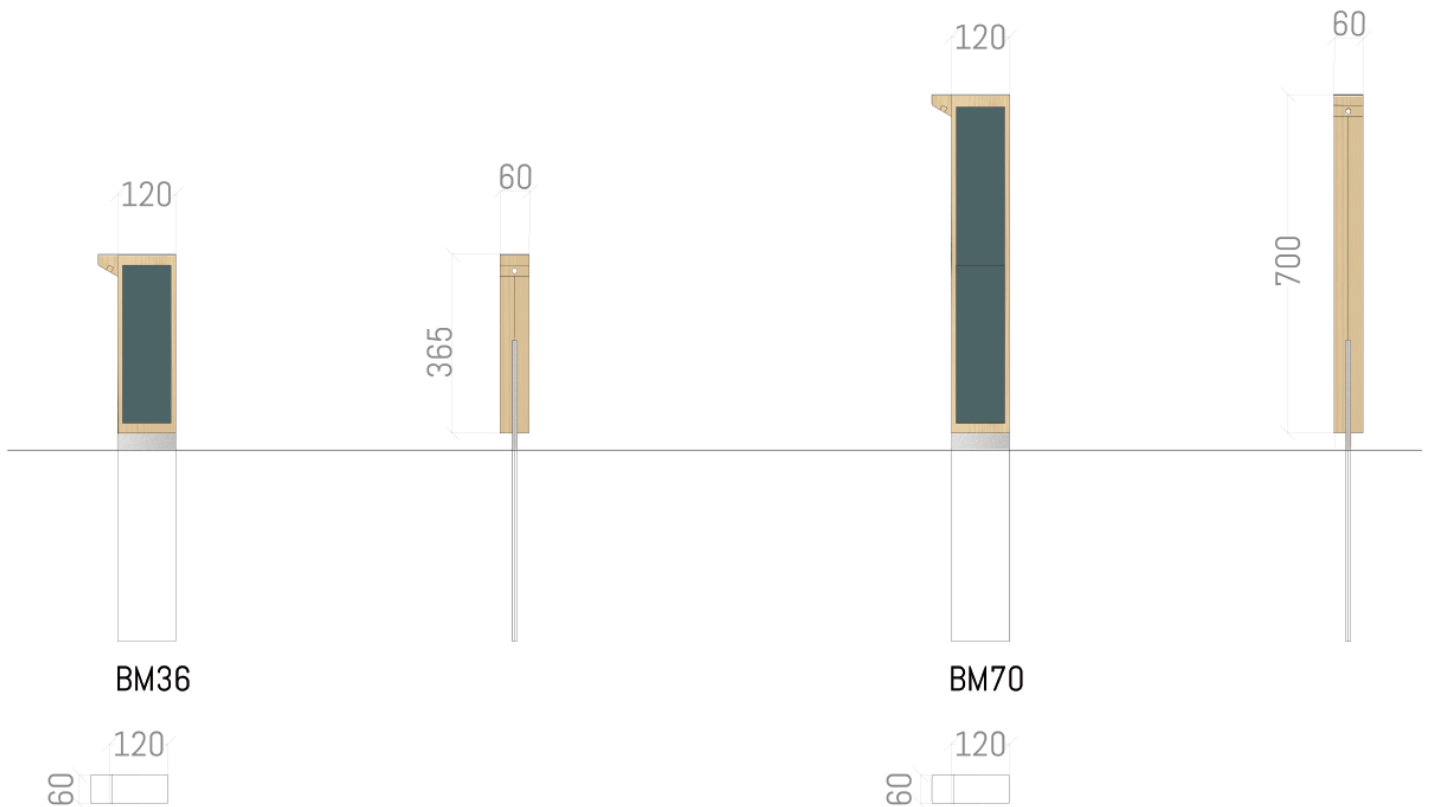


TYPE BM – WOODEN SOLAR BOLLARD

DATASHEET



PRODUCT SPECIFICATIONS

Wood product for outdoor solar led lighting

1 optic

1/Bloc ST

Stainless steel optical block diameter 16 mm screwed in the head.

Led power up to 1,4 W.

Led temperature 3000 K.

Lifetime : 50.000 h (L90B50).

CRI > 80.

Photometry: 90° Asymmetrical.

Class III - IK10 - IP67 - CE.

Waterproof connector for connection with card box.

Complies with the December 2018 light pollution decree.



Dimensions

Model BM 40

Height 400 mm – section 60 x 130 mm

Model BM 70

Height 700 mm – section 60 x 130 mm

Frame

Made of Accoya wood: guaranteed for 20 years outdoors.

Minimum thickness 20 mm.

Not stained. Natural appearance of the wood. No maintenance of the stain.

Assembled by screwing.

Easy maintenance of the active parts by dismantling (4 screws with insert).

Upper protection plate in painted galvanized steel.

Fixing to the ground by burying with steel blade gale.

On request, square base plate for mounting on solid wood.

All the screws of the product are in stainless steel 316L.

Solar

Model BM 40

Active HTS solar panels. Quantity 2

Unit size : 325x100

Solar cells assembly on each side of the bollard.

Glued solar panels.

Unit size : 325x100

Class III - IK10 - IP67 - CE.

Model BM 70

Active HTS solar panels. Quantity 4

Unit size : 325x100

Solar cells assembly on each side of the bollard.

Glued solar panels.

Class III - IK10 - IP67 - CE.

Solar cells

Sunpower Back Contact solar cells high efficiency 24%.

Optional tempered glass or polycarbonate cover

Lifetime of more than 25 years.

Batteries

LiFePO4 battery.

Capacity 13 Ah for both models.

Voltage 3,2 V.

8000 Cycles - DoD 55 %.

Lifetime: 22 years.

All the batteries, electronic cards, connections and other electronic components are housed in housed in IP67 resin-coated enclosures. They are housed inside the two posts.

Operating software

Algorithmic management by microprocessor that guarantees :

- Management of the charge and calculation of optimal power all year round, taking into account latitude, season and weather conditions, with MPPT technology.

- Management of battery discharge to guarantee operating time 365 nights a year.

Battery operating temperature measurement system integrated in the electronic board allowing protection and longer life.

Battery charging temperatures: - 10°C / + 60°C.

Operating temperatures : - 30°C / + 85°C.

Minimum autonomy of 10 nights of lighting

Bluetooth Connexion to control the produit via a smartphone application available on iOS and Android :

- ON/OFF function of the device.

- Lighting scenario setting

SCENARIO 1

6 hours lighting from sunset.

SCENARIO 2

4 hours lighting from sunset. 2 hours lighting before sunrise.

SCENARIO 3

From sunset to sunrise with presence detection (extinction after 2 minutes with no movement).

SCENARIO 4

Scenario on demand.

