

Alto

AUTONOMOUS SOLAR BOLLARD

DESIGN AND PERFORMANCE



Alto is an all-in-one architectural solar bollard, designed for **quick and easy installation**. It combines performance, aesthetics, and discretion. With its **minimalist design**, the Alto solar bollard blends seamlessly into landscaped areas, pedestrian zones, or public spaces, bringing a contemporary touch to outdoor lighting.

General

Housing material	Aluminum die casting cover, extruded aluminum body
Fixing elements	Stainless steel
Paint and finishes	Polyester powder paint coating. Resistant to corrosion.
Weight	7.2 kg (15.87 lb)
Maintenance	Replaceable modules: LEDs, battery and charge controller.
EPA	0.039m² = 0,42 ft² (90°)
Warranty	3 years
Certificats	CE, IK08, IP65

Solar panels

Technology	Photovoltaic modules (Monocrystalline silicon)
Power	2 x 22 Wp / 18 Vdc
Cell efficiency	Up to 22.8%
Tilt	Vertical (90°)
Structure	Frameless
Dimensions	650 x 193 x 5 mm (25.59 x 7.60 x 0.20 in)
Lifetime	> 25 years at 80% of initial power

Battery

Technology	High grade LiFePO4 Battery
Capacity	154 Wh / 3,2 V – 48 Ah
Operating temperature	-20 °C à +70 °C (-4°F to +158°F)
Protection	BMS protection
Autonomy	3 nights
Lifetime	2000 cycles (≈10 years)

Electronics

MPPT controller	Solar charging optimization
Charging efficiency	Up to 95 %
Automatic lighting	Yes
Total LED output power	20 to 150 W (or 2 x 80 W)
Ingress protection rating	IP65 with waterproof connector
Lifetime	> 10 years

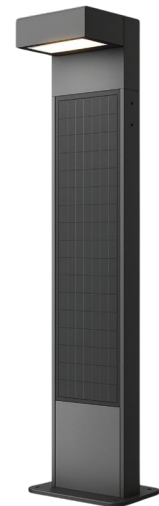
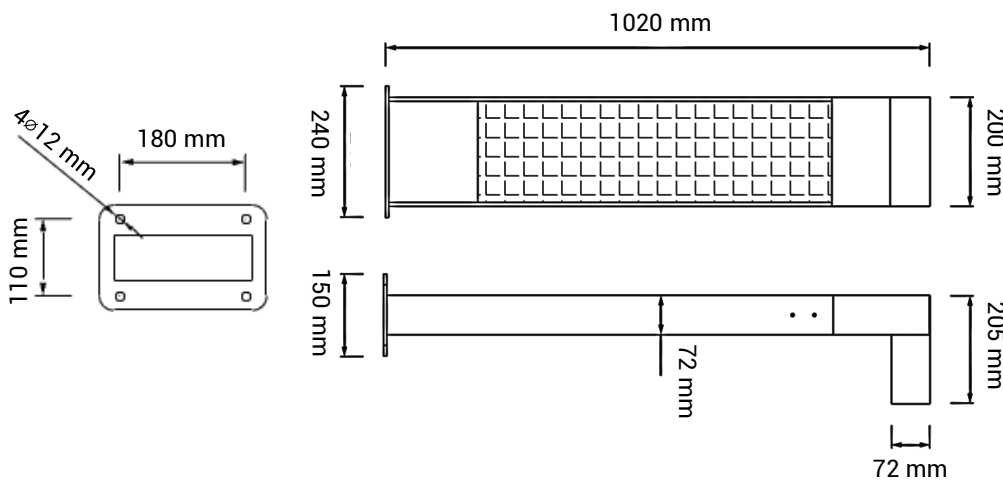
Colors



RAL 9005
Black



Dimensions



Lighting

Initial luminous flux	72 LEDs 2835
Luminous flux	1000 lumens
Luminous flux after optical loss	600 lumens
Power consumption	10 W
Initial luminaire efficacy	Up to 100 lm/W (4000K)
CRI	>70
Color temperature	3000 K, 4000 K
Optic system	PMMA lenses & tempered glass protection
LED useful lifetime	Over 75 000 hours (L90B10)
Mechanical resistance	IK08, IP65
Certificates	EN 60598, ENEC, CE

Photometries

☒ MR-T2ME (*Medium asymmetric light distribution type II*)

