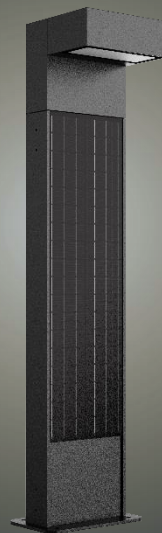


Alto

ARCHITECTURAL SOLAR BOLLARD



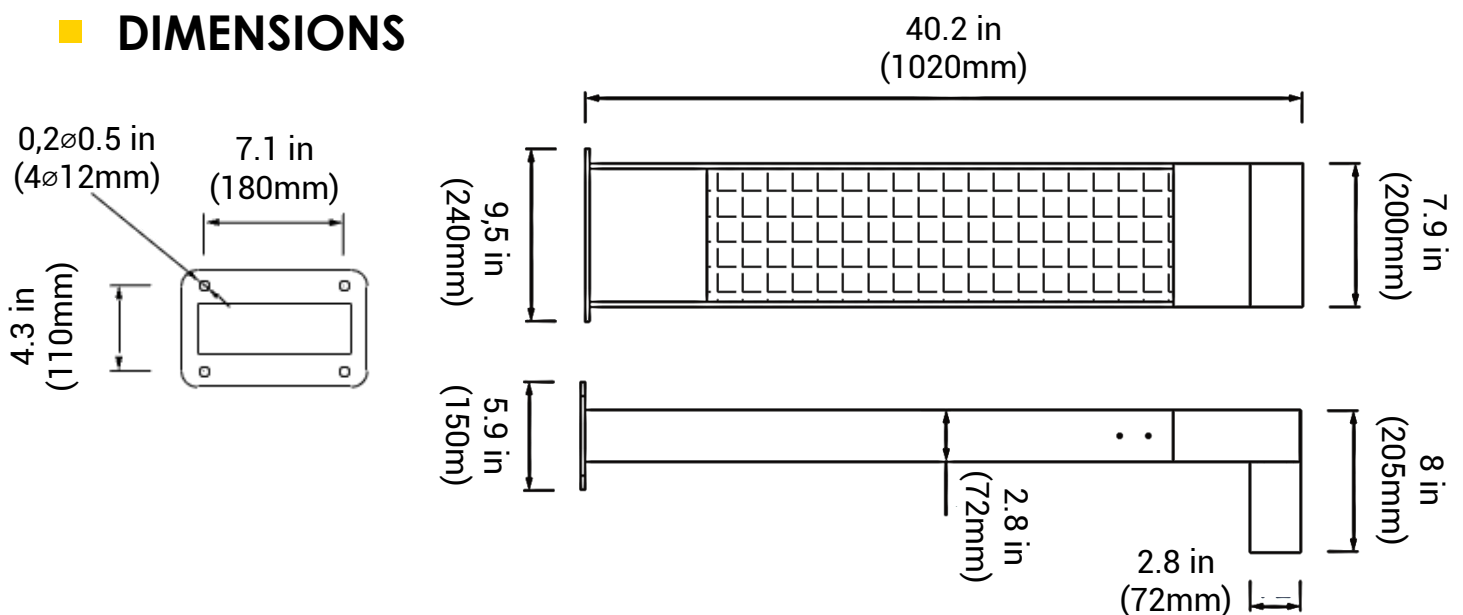
**WARRANTY
5 YEARS**

LED	High-efficiency LED Module	72 LEDs 2835
	Initial luminous flux Tj=77°F (up to)	1000 lumens *
	Power consumption (up to)	10W *
	Initial luminaire efficacy Tj=77°F (up to)	100 lm/W (4000 K)
	Nominal luminous flux Tj=77°F (up to)	850 lumens *
	CRI	>70
	Optic system	PMMA lenses & tempered glass protection
	IK rating	IK08
	Upward light output ratio ULOR	0%
	Color temperature	3000 K, 4000 K
	LED useful lifetime L90B10	>75,000 hours
	LED module thermal dissipation	Passive dissipation by convection through the aluminium body
SOLAR PANEL	Technology	Monocrystalline silicon
	Power	2 x 22 Wp / 18 Vdc
	Lifetime	> 25 years at 80% of initial power
	Tilt	Horizontal (0°)
	Structure	Frameless
BATTERY	Battery technology	High-grade LiFePO4 Battery (resistant to extreme temperatures, maintenance-free)
	Capacity	154Wh (3.2V 48Ah)
	Operating temperature	-4°F to +158°F (-20°C to +70°C)
	Protection	BMS protection in the battery
	Battery recharge time in sunny conditions	3 - 4 hours
	Autonomy (up to)	3 nights
ELECTRONICS	Lifespan	10 years
	Charge controller technology	MPPT charge controller with programmable lighting levels
	Electrical protection	Reverse polarity protection/over-voltage/overcharge and overdischarge/over temperature/open circuit and short circuit
	Connectors	Quick connectors (easy maintenance & components replacement)
GENERAL	Protection class	Class III
	Housing material	Aluminum die casting cover, extruded aluminum body
	Fixing elements	Stainless steel
	Paint and finishes	Polyester powder paint coating. Resistant to corrosion.
	IP rating	IP65
	IK rating	IK08

* With motion sensor

GENERAL	Dimensions	40.16 x 7.87 x 2.83 in (1020x200x72 mm)
	EPA	N/A
	Weight	15.87 lb (7.2 kg)
	Maintenance	Replaceable modules: LEDs, battery and charge controller
	Options	Motion detector
	Height	3'4" (1.02m)
CERTIFICATES	Warranty	5 years
	Solar panel certificates	IEC 61215; IEC 61730 I and II
	Battery certificates	EN 62133
	LVD & Security certificates	EN 60598-1 / EN 60598-2-3 / EN 62493 / IEC 62471
	EMC certificates	EN 55015 / EN 61547 / EN 61000-3-2 / EN 61000-3-3 / EN 61347-2-13 / EN 61347-1 / EN 62384
	Other certifications	IEC 62262 / EN 13032-4 / EN 62717 / EN 6272-1 / EN 6272-2-1 / EN 61643-11

DIMENSIONS



LIGHT DISTRIBUTION

