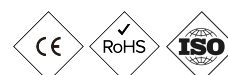
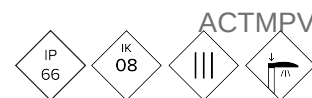


Streetlamp

TOMSK SOLAR



Autonomous, Solar powered Light Point , 100% renewable. A sustainable solution that requires no electrical grid connection, greatly simplifying installation. Its minimalist design integrates all functionalities into a single rectangular volume made of extruded aluminum, seamlessly blending into any public space lighting project. Highly robust and durable, it incorporates a BENITO LED module at its end with a power range up to 20W, allowing it to meet any lighting requirement.

MAIN FEATURES:

A completely autonomous solution that does not require a connection to the electrical grid.
Extruded aluminum body with cast iron fasteners. All-in-One concept.
Corrosion-resistant powder coating finish
Ability to incorporate control nodes.
Light Point with integrated photovoltaic panel and LiFePO4 battery.

APPLICATIONS:

Residential Streets (Zones 30)
Pedestrian Zones
Commercial and Tourist Streets
Squares
Green Areas; Parks and Gardens

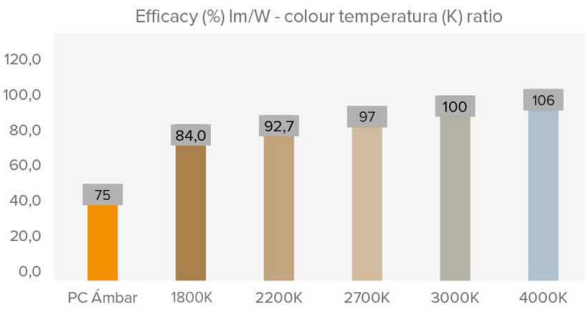
SPECIFICATIONS :

Housing material:	Extruded aluminum tube with rectangular cross-section.
Diffuser (optic system enclosure):	4mm polycarbonate. Filters UV rays.
Fixing elements:	18/8 Stainless Steel - AISI 304
Housing:	Built from a single piece with a register for the BENITO Module
Sealing gaskets:	Silicone (extrusion)
IP rating (luminaire):	IP66
IP rating (optic system):	IP66
IK rating (impact resistance):	IK08
LEDs thermal dissipation:	High-efficiency heat sink. Passive convection heat dissipation and ensuring thermal contact of the LED modules through high-conductivity thermal transfer material.
Anti-condensation valve:	Pressure compensation valve that ensures the evacuation of moisture, preventing condensation, maintaining the IP rating of the module.
Paint and finishes:	Polyester powder coating, electrostatically sprayed and oven-sublimated. Corrosion resistant.
Colour:	RAL 7016
Mounting:	Fixing using bolts
Tilt range:	Non-adjustable luminaire
Maintenance:	Replaceable modules: LEDs, Drivers.
Recommended mounting height:	3.5 m
Driver:	MPPT charge controller. Different timed levels. Optional hybrid with mains connection.
Flow Reduction:	Adjustable driver 0-10V, programmable in 5 levels and with DALI 2 option. With Wireless, AOC, MTP, DTL features.
Ready4IOT - Connectivity:	LiFePo4. 461 Wh / 12.8 Vdc / 36 Ah. Protección BMS.
Surge protection device (SPD):	Type 2, 10-20kV and 20kA transient surge protector. Series connection with thermofuse disconnecter for a more effective protection at the end of its service life
DarkSky Approved	

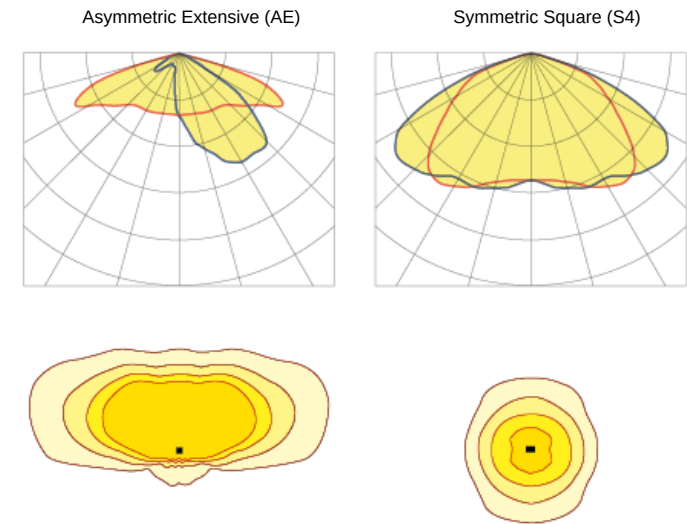
V. 2026-06-11 | The constant improvement and evolution of our products may result in some modifications of the technical specifications and characteristics of the products without prior notice.

TECHNICAL DATA:

	REF.	Nº LEDs	Power W	I Driver mA	Real luminous flux (T) =85°C	Initial luminous flux (T) =25°C)
					Flux lm Efficacy lm/W	Flux lm Efficacy lm/W
Tomsk Solar	ACTMPV	16	20	-	2842 142	3240 162



PHOTOMETRY:



*Show 4 recommended lighting distributions. Refer to the 18 typologies.

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LEDs MODULE:		
LEDs module:	BENITO 96 LEDs. See Color Temperatures, CRI and Light Distributions	
Replaceable module:	YEAH	
LED:	3030	
Number of LEDs:	96	
PCBs format:	Circular	
LED nominal efficacy:	172	
Colour temperature:	3000K	
Colour rendering index CRI:	>70 (optional >80)	
Average LED useful time L90B10:	L90B10 >100,000 hours	

OPTIC SPECIFICATIONS:		
Optic system:	PMMA lenses	
Light distributions:	2 light distribution curves	
Upward light output ratio ULOR:	0%	
Downward light output ratio DLOR:	100%	
Glare index:	Between D5 and D6 (depending on the light distribution)	
Luminous intensity category:	Between G*4 and G*6 (depending on the light distribution)	
Luminous flux CIE n°3:	>95%	
Photobiological safety:	RG0 (risk-free)	
Initial luminous flux Tj=25°C (up to):	lm	6840
Initial luminaire efficacy Tj=25°C (up to):	lm/W	137
Real luminous flux Tj=85°C (UNE EN 13032-4) (up to):	lm	6000
Real luminaire efficacy Tj=85°C (UNE EN 13032-4) (up to):	lm/W	120

ELECTRIC SPECIFICATIONS:		
Nominal maximum power (LEDs):	W	45
Maximum power consumed (luminaire):	W	50
Power range:	W	20 - 50W
Maximum current of LED:	mA	<500 (<50% I _{max})
Power supply protection classes IEC:	Class III	
Surge protection device (SPD):	LiFePo4. 461 Wh / 12.8 Vdc / 36 Ah. Protección BMS.	
Common and differential mode protection (SPD) Udc:		
Max current (8/20) (SPD):	kA	20
Thermal phase disconnection (SPD):	Yes	
Input voltage:	Vac	220-240
Input voltage (max rate):	Vac	198-264
Input frequency:	Hz	47-63
Starting current:	A	<65
Duration of the starting voltage peak:	ms	<0,3
Driver efficacy:	>90%	
Power factor 100% consumption:	>0,98	
Power factor 50% consumption:	>0,95	
Total harmonic distortion (THD):	<10	
Power consumption on standby mode:	W	<0.4
Energy class:	C (According to EU Regulation 2019/2015 EPREL) - A++ IPEA>1.15	

OPERATING CONDITIONS:		
Average LED useful time L90B10:	hours	>100.000
Average driver useful life to Tp <70°C:	hours	100.000
Average luminaire useful life L90B10 (TM-21):	hours	
Ambient temperature (Ta):	°C	From -35°C to +50°C
Aerodynamic resistance (CxS):	m2	
Vibration test (15Hz 3 axis):		
Wind load test:		
Guarantee:	Years	5 years (extensible up to 10 years)

PACKAGING DIMENSIONS:		
Net weight	kg	31
Gross weight	kg	34
Luminaire dimensions (LxWxH)	mm	4000x168 (diámetro)
Packaging dimensions (LxWxH)	mm	
Pieces per box		
Quantity per container 20ft		
Quantity per container 40ft		

CERTIFICATES:		
Security certificates:	EMC certificates:	Other certifications:
EN 40 / EN 62031 / EN 62493 / EN 62471 / IEC 62778	EN 55015 / EN 61547 / EN 61000-3-2 / EN 61000-3-3 / IEC 62262 / EN 13032-4 / EN 62717 / EN 6272-1 / EN 6272-2-1 / EN 61643-11	
/EN 61247-2-13	EN 61347-2-13 / EN 61347-1 / EN 62384	

BENITO

info@benito.com
tel. 93 852 1000