MOZELEC

SOL É vida

TRON

LED **LUMEN**	SAFETY **CLASS I**	SAFETY **CLASS II**

ALUMINUM **ADC-12**	CORROSION RESISTANCE C5	IP **66**	IK **08**

HOUSING COLOR	**TAILORED COLOR**	CRI Ra(80)

IEC   CE   RoHS COMPLIANT

-30~70°C	100.000h	Eco-Friendly

72 in one
BEAM

Luminous Intensity Distribution Diagram
72 + Styles

TRON series Solar LED Street Light is ideal of the avant-garde, sustainability and performance projected into the future: this is the innovative concept of TRON.

The teamwork between designers and R&D has in fact LED to the creation of a product with a great aesthetic impact and high performance, capable of ensuring maximum energy savings.

SUPERIOR SELECTION

Grade A solar cell

Grade A solar cell assure high efficiency in energy conversion, up to **22.5%**
(Shingled PV module optional)

LiFePO4

Battery pack system

LIFEPO4 batteries deliver 2000+ times (10years) deep cycling life without significant excess capacity. This means a smaller, lighter and more attractive footprint. LIFEPO4 goes further by offering this benefit in freezing climates.

High integrated MPPT

MAX power track with 96% high efficiency conversion for effective energy charging and discharging, up to 30A current protection for system from high capacity design.

KEY FEATURES

- Tron adopts the latest photovoltaic technology, which can meet the efficiency improvement of charging under low light,
- High lumen flux keeping output all night covers the maximum area with different timing slot. Eff up to 172lm/w
- Friendly for maintenance, each parts is replaceable for future upgrading.
- Multi- combination installation fits all the types applications.
- Adjustable connector friendly fitting poles desisgns.

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STRUCTURE:

- BODY Die-cast aluminium fixture EN1706, consisting of three main elements: lower support frame, optical compartment cover, wiring compartment cover.
- Super white transparency tempered glass ensure excellent light output and long years Anti-UV.

DESIGN AND PERFORMANCE

- TRON is a multi-functional and versatile solar luminaire suitable for both street and urban applications.
- The product, designed according to high-quality standards, allows to create particular solar lighting scenarios thanks to the modular composition of its optics. Some modules, in fact, can be directed towards the opposite side of the road, in order to create backlit solutions.

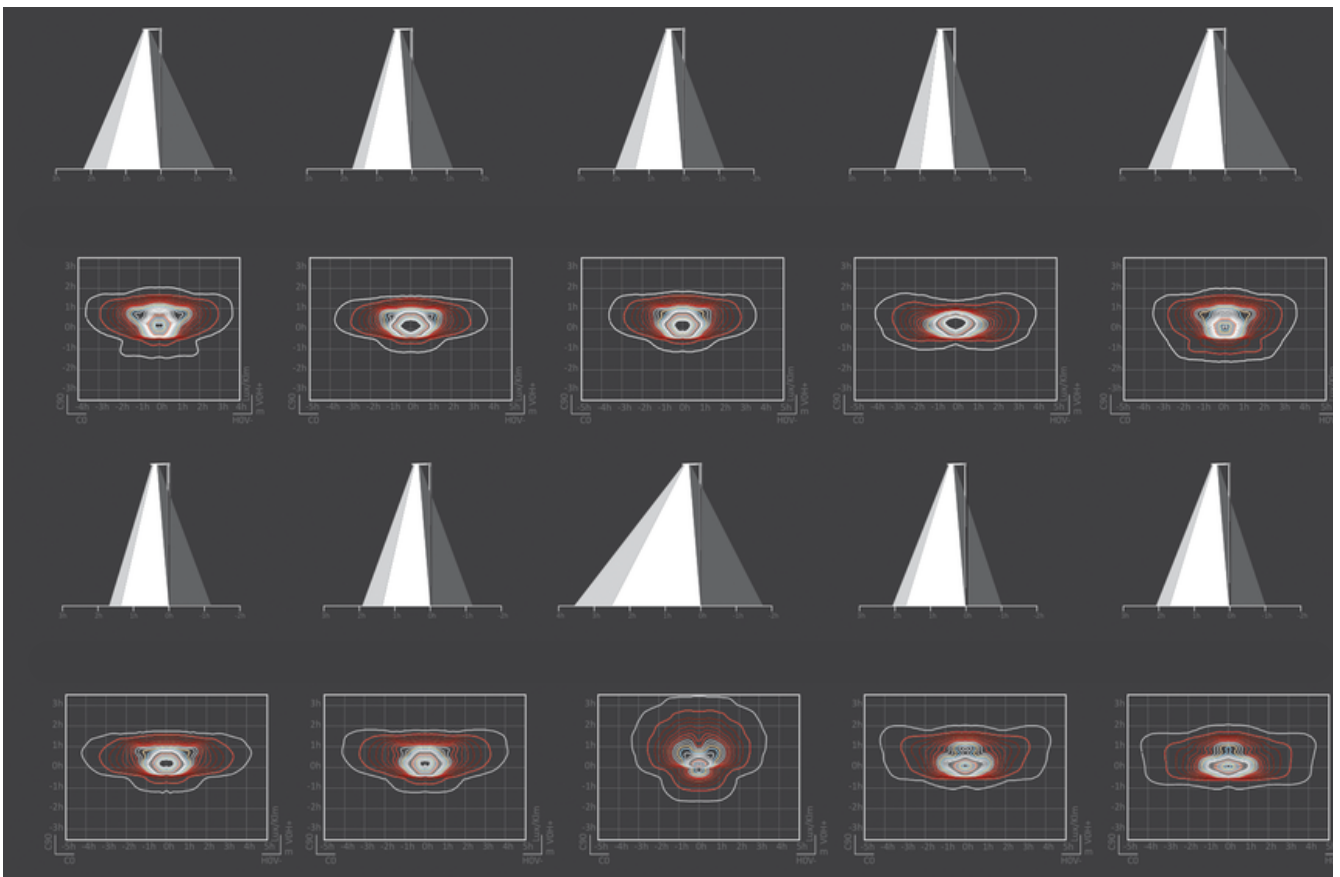## OPTICAL MODULE - 72 + STYLES

- MOZELEC optical systems are the result of an intensive R&D activities which has allowed the company to choose an alternative efficient solution, completely different from plastic material lenses. The reflection method adopted by MOZELEC during reflectors development, allows better and higher performance, reductions of glare effect and high visual comfort. MOZELEC studies have demonstrated that this material with pure alloy new surface finishing, assures important advantages for the optical system over time.
- The specific UV protection of the poly-carbonate Lens improves the life performance, guaranteeing long-term stability and perfect light transmission.
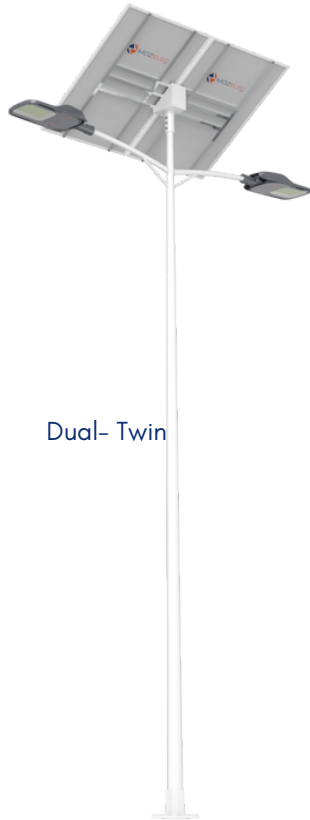
LIGHT SOURCE & OPTICAL TECH

CREE⇕   OSRAM

Anti-UV PC Lens Transparency up to 93.8%, 72+ type beam optional flexible for applications

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM - SELECTIONS

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APPLICATIONS

Dual– Twin

Deluxe– Single

MAIN PARAMETERS

Item No.	TRON- 30W	TRON- 50W	TRON- 60W	TRON- 80W	TRON- 100W	TRON- 120W	TRON- 150W	TRON- 200W
Rated Power (W)	30W	50W	60W	80W	100W	120W	150W	200W
Luminous Flux (lm)	4800lm	7550lm	9300lm	13100lm	16300lm	19320lm	22500lm	29600lm
CRI (Ra)	70 / 80							
LED Type	SMD 3030 LUXEON 2D / OSRAM / BRIDGELUX / CREE							
CCT (K)	3000K / 4000K / 5000K / 6000K / optional							
Effeciency (lm/w)	155~186lm/W							
Beam Angle (°)	72+Types / Type I / II / III / III optics & optional (PC / PMMA)/							
Battery Capacity	12.8V 384Wh	12.8V 460Wh	12.8V 614Wh	12.8V 844Wh	25.6V 1075Wh	25.6V 1228Wh	25.6V 1382Wh	25.6V 1844Wh
Battery Type	Brand new lithium ferro phosphate							
Battery Lifetime	D.O.D 50% 4000 CYCLES							
Charging Hours	4~8 Hours							
Discharging Hours	Cover 12hours per night by fully charged till dawn off							
Smart System Fitting	HYBRID TYPE SOLAR+ 220v back up / Zigbee 2G/4G Wireless Control							
Solar panel	Mono- 60W	Mono- 80W	Mono- 100W	Mono- 140W	Mono- 200W	Mono- 260W	MONO-300W	MONO-400W
Cloudy & Rainy Back Up	3~7 DAYS Back up / optional							
Discharging Mode	Auto dusk to dawn / Time Slot / Manual On-Off / IOT							
Control Charger	MPPT CONTROLLER 8A~30A							
Work Temperature	-20 ℃ ~ 75 ℃							
IP Rated	IP 66 (Dust penetration-protected, jet-proof)							
IK Rated	IK 08							
Lamp Material	Die-Casting Aluminum - ADC 12							
Glass	Full tempered glass with 95% transparent efficacy							
Cable	UL / VDE standard, Low resistance							
Remarks	Solar Panel selection optional for Mono and Two- in -One / Mono or Shingled PV module available as optional							
Suggest Installation Height	4~7m	5~8m	6~12m	7~12m	7~12m	8~12m	8~13m	9~15m

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