

- Economical, easy to install
- Philips LumiLEDs luxeon chips
- The light automatically switches on at dusk and switches off at dawn
- All in one built in solar panel, battery and LEDs
- Grade A Mono Crystalline solar cells to maximize solar energy and ensure fast charging
- Certified by CE and ROHS with LED chips that provide qualifying lighting and 50000+ hours lifespan with super bright illumination
- Smart power management for rainy days, automatic day and night detection
- 0 carbon dioxide emissions
- Lithium LifePo4 with lifetime over 10 years
- 150 Lumens per watt and IP65 rated
- 5 Years limited warranty in all components





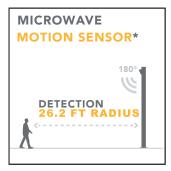




LUMINAIRE

HOUSING & LEDS





* Beyond Solar offers a Limited Warranty that the TOTEM Series luminaire shall be free from defects in material and workmanship. This limited warranty covers all components when installed and operated according to Beyond Solar instructions. Fixture suitable for ambient temperature from 14°F to 122°F. PV Panels - 20 year performance warranty Controller & Batteries : 1 years















LED POWER		40 WATT
LUMINOUS FLUX		6000 LUMENS
LIGHTING	◀	
Efficiency		150 LUMENS / WATT
Chips		PHILIPS LUXEON
LED Lifetime		OVER 50000 HOURS LM80
Lighting Angle		120 DEGREE
Light Height		11.811 FT
STORAGE	•	
Technology		LITHIUM IRON PHOSPHATE LIFEPO4 - 26650
Capacity		57 AH 12.8 VOLTS
Autonomy		OVER 24 HOURS AT FULL CHARGE - 4 RAINY DAYS BACK UP
Charging time		6-7 HOURS
Lifespan		OVER 4000 CYCLES @ 80% DOD OVER 10 YEARS LIFETIME
Working Temp.		14°F to 158°F
ENERGY	◀	
Solar panel		195 WATTS /18V
Cells type		MONOCRYSTALINE PANEL GRADE A 25 YEARS
Certificates		IEC 61215 ; IEC 61730 I AND II ; IEC 60904
ELECTRONIC	◀	
Controller		MPPT SMART CONTROLLER (REMOTE MONITORING OPTIONAL)
Sensor		MICROWAVE 360 DEGREE MOTION SENSOR
Cabling		WATERPROOF CONNECTOR, PLUG AND PLAY
Protection		OVER LOAD/CURRENT/TEMP°/VOLTAGE/CHARGE/DISCHARGE
Certificates		EN 55015 ; EN 61000
MECHANICAL	◀	
EPA (m2/ ft2)		0,428 / 4,6
Wind Load Rate		111.847 MPH
Base plate		12.5984 X 10.6299 IN
DIMENSIONS	◀	
Unit size L x W x H		145.6693 X 16.9291 X 14.9606 IN
Carton size		150.7874 X 18.1102 X 16.1417 IN
Net weight		121.254 LB
Gross weight		143.3 LB
QTY per container 20" / 40"/ 40"HQ		25 / 75 / 90

















BATTERY LITHIUM LIFEPO4

The TOTEM Series is equiped with Iron Phosphate Lithium LiFePo4 battery. This technology is proved to be **the best chemical technology for solar** application on the market.

With a cycle life of over 4000 Cycles @ 80% DOD, the battery enjoys over 10 years lifetime.

EASY MAINTENANCE

& ANTI THEFT SCREWS



品

Easy and direct access to the battery casing for maintenance. The enclosure is sealed with **anti theft screws**, which request special tooling to unscrew.

ELECTRONIC PROTECTION

BATTERY MANAGEMENT SYSTEM (BMS)



The BMS offers MULTI PROTECTION:

- OVER/UNDER LOAD
- OVER CHARGE & DISCHARGE
- OVER/UNDER CURRENT
- TEMPERATURE MANAGEMEN



Standard Lithium LiFePo4 batteries enjoy a working temperature range from 14°F to 158°F



ALUMINUM WATERPROOF CASING

High temperatures greatly affect the battery's lifetime. This is why our batteries are encapsulated in an aluminum waterproof casing for a perfect heat dissipation.

SOLAR PANEL 195 WATTS

For best performance and Design TOTEM are equipped with advance SHINGLED technology. Offering a higher power per square meter but also:

LESS ENERGY LOSS DUE TO SHADING

POWER LOSS DUE TO SHADING

Conventional panel

Beyond Solar panel

- 40%

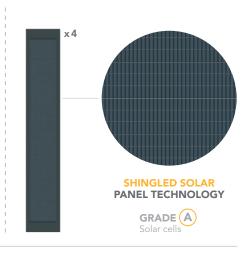
- 6%

BETTER RELIABILITY

Low busbar failures & Better mechanical performance

MORE ATTRACTIVE

Without any busbar and no visible circuitry, most people won't notice that TOTEM is solar powered. Which allows an even **better integration in his urban environment.**

















LUMINAIRE HOUSING & LEDS

40 WATTS - 6000 LUMENS - 5000K

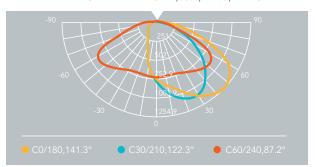
An UV resistant thick Polycarbonate Fixture over a die-cast low-copper aluminum base. Protection class (IP66). It provides an excellent salt and humidity resistance as well as ultra violet resistance for color retention.

Our Luminaire is equipped with **PHILIPS LUXEON** High efficiency Chips offering and overall **150 Lumens per Watt efficacy.**

Our Luminaire comes with heat dissipation design, pure aluminum lamp base with sealed lens for an optimal lighting and life Span.

▶ LIGHT SOURCE 3030 LED QTY (PCS) 48 LENSE MEME STYLE (PCS) 4 CRI > 70

AVERAGE BEAM ANGLE (50%): 106,2 DEG







CONTROLLER SMART MPPT

TOTEM is equipped with High Quality MPPT Controller, using **top technology semiconductor**.

FEATURES

HIGH TRANSFER EFFICIENCY

Charging efficiency up to 98%

MINIMAL STAND-BY POWER CONSUMPTION

Current consumption ≤ 10mA

INTELLIGENT BATTERY MANAGEMENT 3 Phases charging : MPPTT Charge / Constant Voltage / Floating Voltage.

INTELLIGENT LED DRIVER Auto detecting of Dusk and Dawn for automatic operation, 7 Lighting Programs Configuration.

ANTI BLACK OUT: Load adjust according to battery capacity assuring all night long lighting in any weather conditions.

BATTERY & SYSTEM PROTECTION:

- OVER / UNDER LOAD
- OVER / UNDER CURRENT
- OVER / UNDER VOLTAGE
- OVER CHARGE & DISCHARGE
- TEMPERATURE MANAGEMENT







REMOTE CONTROL MONITORING

- Check the state of the battery
- Check the charging history
- Settle different running time slots
- Issue diagnostic









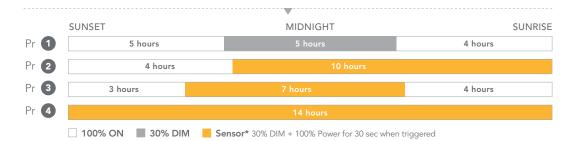






OPERATION MODE

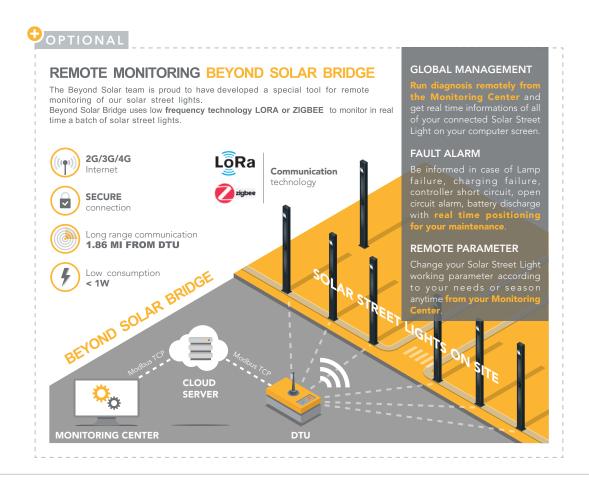
THE PHOTOSENSOR WILL AUTOMATICALLY SWITCH ON & OFF THE LIGHT FROM DUSK TO DAWN.



MICROWAVE MOTION SENSOR*

 180° coverage, invisible and integrated to the luminaire housing. **26.2 FT** wave radius.











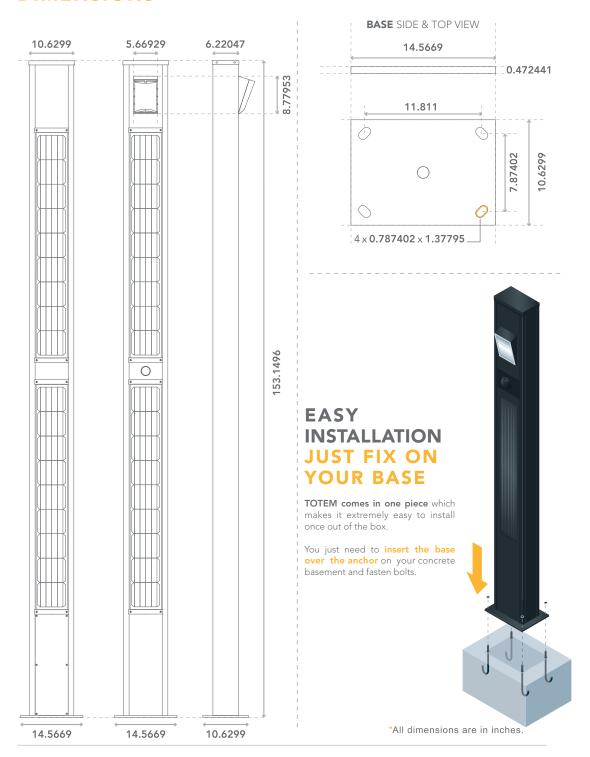








SOLAR PANEL & LUMINAIRE DIMENSIONS*









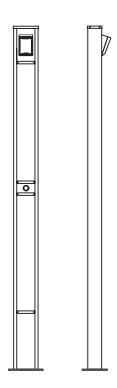




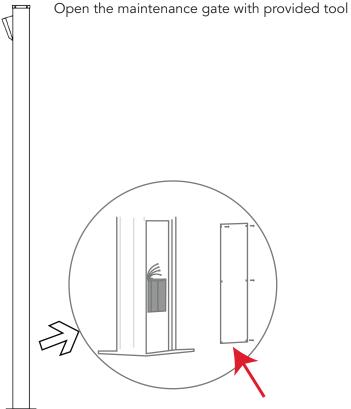




TOTEM SOLAR LIGHT ASSEMBLY INSTRUCTIONS*



STEP 1:



STEP 2:

Connect the plug & play connectors "Male" to "Female".

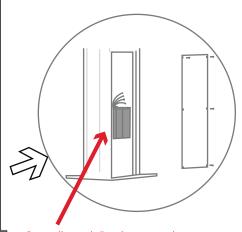
Connectors Location

STEP 3:

First of all, you need to check the controller battery indicator red light shall be on with in steady state.

The second, you need to check the controller PV indicator red light shall be on with in blinking state

The third, you need to check the sensor's indicator blue light shall be blinking on the product



Controller with Diode state indicator

STEP 4:

Complete the above steps, please close the maintenance gate with screws.



