



GERMAN-based company ●●●

SOLAR LED LIGHTING SYSTEMS

Catalogue





 Garching - Munich Manufacturing Facility / Germany



 Antalya Manufacturing Facility / Türkiye

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In an increasingly complex world, we continuously adapt to changes and actively encourage all our partners to embrace our long-term goals and values through goal-oriented communication and a deep mutual understanding of our mission. In this way, we aim to provide a valuable contribution for future generations.

T e c h n o l o g y

Vision:

Our vision is to be a leader in the development of advanced solar energy technologies that maximize energy efficiency, protect the ecological balance, restore harmony between humans and nature, and accelerate the global transition to renewable energy in order to achieve the set climate goals.

Mission:

We focus on continuous innovation and research to develop modern solar technology and integrate it efficiently into smart home systems, enabling our customers to benefit from connected and sustainable energy use.

Today:

Many customers are already benefiting from our modern installations, which we have seamlessly integrated into their homes. This optimizes energy consumption, allowing customers to save money immediately and reduce their carbon footprint.

O p t i m i z a t i o n

“Through intelligent optimization solutions, we achieve the most efficient use of solar energy worldwide, actively supporting the achievement of climate neutrality.”

“We are committed to developing and implementing advanced automation and control technologies to optimize energy consumption in households and businesses whand significantly reducing operating costs.”

Our customers' current energy optimization systems have already achieved significant improvements in emissions.

M a n u f a c t u r i n g

We aim to be a leading manufacturer of solar technologies, setting industry standards for quality and sustainability.

We are committed to producing high-quality and innovative solar products that meet the needs of the present whand addressing future challenges. Through continuous improvements and investments in our production processes, we strive to maximize efficiency and minimize environmental impact.

Our customers are already benefiting from the advanced solar products manufactured in our state-of-the-art facilities. These products are not only efficient and reliable but also leading in terms of sustainability and environmental protection. The continuous optimization of our production processes guarantees products that are both economically and ecologically advantageous.

M i l e s t o n e s

We are pioneering solar technology that plays a crucial role in contributing to energy independence and climate resilience.

We drive transformative change in the global use of solar energy. By developing technologies that enable significant improvements in performance and ease of use, we are setting new standards.

Customers worldwide are using our technology, and together we are accelerating the transition to renewable energy whand achieving both economic and ecological benefits.

A u t o m a t i o n

To drive the integration of intelligent automation solutions that make the interaction between solar technologies and end users seamless and intuitive.

To develop automation systems that not only operate smoothly but also adapt to consumer needs. These systems aim to optimize energy consumption, enhance operational efficiency, and accelerate the adoption of renewable technologies.

Our customers are enjoying the convenience and efficiency that our intelligent automation solutions bring to their daily lives. These technologies simplify the control of their energy supply, reduce costs, and support the transition to a more environmentally friendly future.



2014



60+



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T r a n s p a r e n c y

Vision:

We aim to create an atmosphere of openness where everyone from our customers to our employees feels secure and well-informed.

Mission:

Clear information, no secrets that's our motto. Whether it's about the production of our products or how they function, we keep you constantly updated. We believe that well informed people make better decisions.

Today:

Our customers and partners benefit from our transparent business management. We ensure complete openness at every stage of our processes, from development to product delivery. This practice of open communication allows our stakeholders to make informed decisions and strengthens trust in long-term collaboration with our company.

E x p e r i e n c e

We want every interaction with our company to be a positive experience for customers and partners. Our products and services should not only be reliable and innovative but also inspire enthusiasm.

Our goal is to provide each customer and partner with a personalized and valuable experience. With our extensive experience in solar technology, we know what works and we use that knowledge to exceed your expectations and make the transition to sustainable energy easier for you.

Our customers benefit directly from our many years of experience in solar technology. We deliver tailored solutions that are reliable and efficient, supporting every step of the journey toward sustainable energy. Our team ensures a seamless experience through professional advice and assistance.

C o m m i t m e n t

Our vision is to be a leader in the solar industry through our unwavering commitment to quality and sustainability. We strive to improve in every aspect every day from product development to our services.

Our primary goal is to consistently exceed our customers' expectations. We are committed to the highest quality and continuous improvement of our products and services. Our dedication to sustainability and ethical business practices is unwavering and guides all our actions.

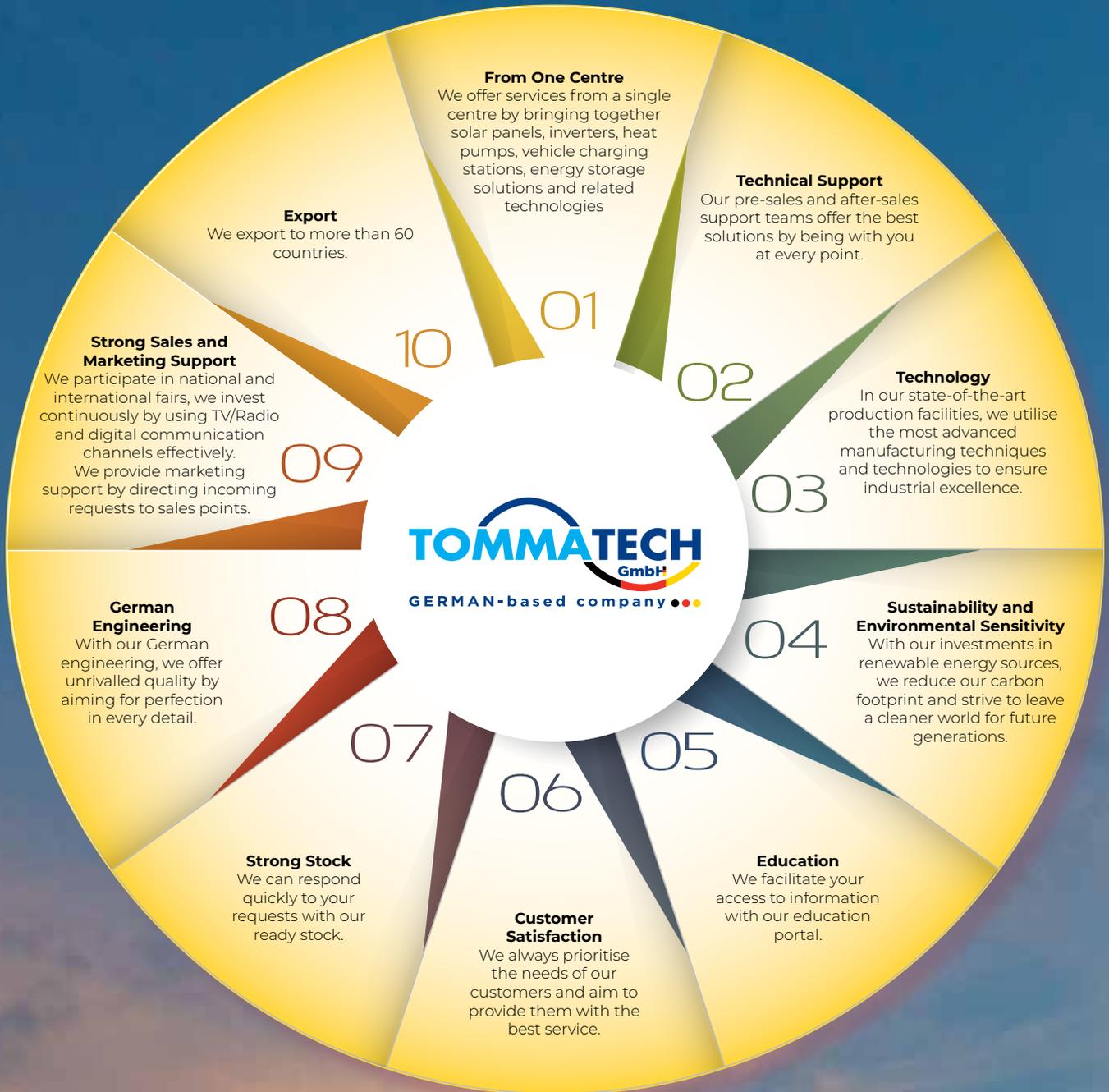
Our customers and partners can rely on our strong commitment. We employ innovative and sustainable technologies to ensure that our solutions are not only efficient but also environmentally friendly. Every project is executed with the highest standards of quality and a focus on long-term customer satisfaction.

H o m e S o l u t i o n

We aim to transform every home into an eco-friendly energy source. Our vision is to offer advanced solar solutions that are easy to integrate and optimize household energy consumption while contributing to global sustainability.

Our goal is to develop customized solar solutions tailored to the specific needs and conditions of each household. We are committed to providing our customers with the best combination of efficiency, ease of use, and economic benefit, making the transition to renewable energy simple and appealing.

Our Home Solution products enable customers to meet their energy needs sustainably while saving costs. Homes equipped with our technology benefit from intelligent energy management and a reduced carbon footprint. Our solutions are not only environmentally friendly but also user-friendly, allowing every household to fully harness the advantages of modern solar technology.



with TommaTech

You are in control!



STREET / ROAD SOLAR LED LIGHTING

TT-LED-YA-20W-SV
TT-LED-YA-36W-SV
TT-LED-YA-58W-SV
TT-LED-YA-90W-SV

TT-LED-YA-20W-SY
TT-LED-YA-36W-SY
TT-LED-YA-58W-SY
TT-LED-YA-90W-SY



WALKWAY SOLAR LED LIGHTING

TT-LED-YY-20W-SV
TT-LED-YY-20W-SY



ECO SERIES WALKWAY SOLAR LED LIGHTING

TT-LED-ECO-4M-10W

TT-LED-ECO-4M-20W



WALKWAY SOLAR BOLLARD LIGHTING

TT-BLRT-LED-20W



WHAT IS A SOLAR STREET LIGHT?

The TommaTech Solar LED Street Light Series integrates next-generation, high-efficiency solar panel technology with lithium battery energy storage systems. These systems are offered in 20W, 36W, 58W, and 90W power configurations. Equipped with a smart power management mode and built-in microwave sensor, these lights provide long-lasting and active illumination. Designed for use in streets, gardens, commercial areas, and roadways, they eliminate electricity bills while offering a modern and aesthetic appearance.

Functionality and sustainability are at the forefront – delivering green energy lighting solutions to users.

HOW DOES A SOLAR STREET LIGHT WORK?

The TommaTech solar LED streetlight is a fully integrated system where the battery, solar panel, and LED module are optimally combined. During daylight, solar energy is captured and stored. At night, the stored energy powers the LED light.

This product operates independently – no cable connection or external electricity is required. It is a plug-and-play solution that is simple to install and use. The solar panels and batteries used in this system are manufactured in-house using cutting-edge technologies.

ADVANTAGES OF SOLAR STREET LIGHTS

- Street and road lighting
- Parking lot lighting
- Green space lighting, such as parks and gardens
- Lighting in areas without electrical infrastructure or where access is difficult

ADVANTAGES OF SOLAR STREET LIGHTS

The TommaTech Solar LED Street Light Series reduces carbon footprint and minimizes environmental impact by utilizing solar energy. Since there is no need for wiring during installation and no electricity bills afterwards, it offers significant cost savings. These lights require no regular maintenance or electrical infrastructure and are unaffected by power outages as they generate energy directly from sunlight.

WHY CHOOSE TOMMATECH SOLAR STREET LIGHTS?

- High-quality solar panel and LFP (LiFePO₄) battery
- High-efficiency LED module
- Advanced MPPT algorithm ensures optimal performance in cloudy conditions
- Intelligent battery management system for optimized energy use
- Completely off-grid operation
- Low maintenance and long service life

WHAT IS WALKWAY SOLAR LED LIGHTING?

The TommaTech Solar LED Walkway Lighting Series is perfectly designed by combining next-generation high-efficiency solar panel technology with lithium battery energy storage systems. Equipped with smart power mode and a built-in microwave sensor, these solar LEDs provide long-lasting and active illumination. Ideal for use in parks, gardens, residential areas, and commercial properties, they not only eliminate electricity bills but also offer an aesthetically pleasing appearance. Standing out with their functionality, TommaTech Walkway Solar LEDs are presented to users as part of a green energy concept.

HOW DOES IT WORK?

The system is carefully configured with an optimized combination of battery, solar panel, and LED module. It absorbs solar energy during the day, stores it in the battery, and automatically powers the LED light at night. With its plug-and-play design, it requires no cable connection or external power supply.

The solar panels and batteries used in this series are produced in-house with state-of-the-art technology.

APPLICATION AREAS OF WALKWAY SOLAR LED LIGHTING

- Parking lot lighting
- Green space lighting, such as parks and gardens
- Lighting in areas without electrical infrastructure or where access is difficult

ADVANTAGES OF WALKWAY SOLAR LED LIGHTING

The TommaTech Solar LED Walkway Lighting Series reduces carbon footprint and minimizes environmental impact by utilizing solar energy. Since there is no need for wiring during initial installation and no electricity bills afterwards, it provides significant cost savings. These systems require no regular maintenance or electrical infrastructure, and because they generate energy from sunlight, they remain fully operational during power outages.

WHY CHOOSE TOMMATECH WALKWAY SOLAR LED LIGHTS?

- High-quality solar panel & LFP (LiFePO₄) battery
- High-performance LED module
- Advanced MPPT algorithm for excellent performance in cloudy conditions
- Smart power management for battery efficiency
- Off-grid functionality
- Long life & low maintenance

TOMMATECH ROAD / STREET SOLAR LED LIGHTING

20W/36W/58W/90W



Road / Street Solar Led Lighting

The TommaTech Solar LED Street Light Series brings together cutting-edge solar panel technology and lithium-based energy storage to deliver sustainable lighting solutions.

Available in 20W, 36W, 58W, and 90W configurations, these lights are ideal for streets, parks, commercial areas, and pathways.

Thanks to their smart power mode and microwave sensors, they ensure effective and long-lasting illumination - without generating electricity costs. Designed for high functionality and built with sustainability in mind, TommaTech Solar Street Lights align with modern green energy concepts and offer an elegant lighting solution for future-ready infrastructure.

Product Features



High Performance



Safe Structure



Microwave Motion Sensor



Intelligent Power Management



IP65 Protection Class



LFP (LiFePO₄) Battery Technology



Easy Installation (Plug & Play)



Remote Monitoring Available



Full Protection: Open/Short Circuit, Overload Reverse Polarity



High-Efficiency LED Module

MODEL(SENSORLESS SYSTEM)	20W	36W	58W	90W
ELECTRICAL SPECIFICATIONS				
Solar Panel Type	TT065 36TN10	TT120 36TN10	TT085 36TN10	TT130 36TN10
Solar Panel Power	65Wp	120Wp	85Wp (x2)	130Wp (x2)
Battery Technology	LFP Battery			
Battery Capacity	307.2Wh (12.8V/24Ah)	537.6Wh (12.8V/42Ah)	645.1Wh (25.6V/30.0Ah)	1228.8Wh (25.6V/48Ah)
LED Module Power	4W-20W (Programmable)	7.2W-36W (Programmable)	11.7W-58W (Programmable)	18W-90W (Programmable)
Charge Controller Type	MPPT (12V/24V)			
Autonomy Duration	Min. 2 Days*			
OPTICAL SPECIFICATIONS				
Luminous Flux	3700lm	6660lm	10730lm	16650lm
CCT (Correlated Color Temperature)	4000K			
CRI (Color Rendering Index)	Ra 80			
Lens	Asymmetric			
SAFETY				
Reverse Polarity Protection	Yes			
Open Circuit Protection	Yes			
Short Circuit Protection	Yes			
Overload Protection	Yes			
OTHER FEATURES				
Protection Class	IP 65			
LED Lifetime	50.000 Hours			
Operating Temperature	-30°C ile +65°C			
Pole Type	Hot Dip Galvanized Polygonal Steel (Optional)			
Pole Height	4m / 6m (Optional)	4m / 6m (Optional)	6m / 8m (Optional)	6m / 8m / 10m (Optional)
Dimming Feature	Programmable			
Adjustable Solar Angle	Yes			
Smart Control	DIM, Microwave Sensor, Intelligent Power Management, Remote Control			
Smart Power Mode	Yes			
Sensor Type	Microwave Sensor			
Accessories	Remote Control			

MODEL(SENSORLESS SYSTEM)	20W	36W	58W	90W
ELECTRICAL SPECIFICATIONS				
Solar Panel Type	TT065 36TN10	TT085 36TN10	TT065 36TN10	TT100 36TN10
Solar Panel Power	65Wp	85Wp	65Wp (x2)	100Wp (x2)
Battery Technology	LFP Battery			
Battery Capacity	230.4Wh (12.8V/18Ah)	384.0Wh (12.8/30Ah)	614.4Wh (25.6V/24Ah)	921.6Wh (25.6V/36Ah)
LED Module Power	4W-20W (Programmable)	7.2W-36W (Programmable)	11.7W-58W (Programmable)	18W-90W (Programmable)
Charge Controller Type	MPPT (12V/24V)			
Autonomy Duration	Min. 2 Day*			
OPTICAL SPECIFICATIONS				
Luminous Flux	3700lm	6660lm	10730lm	16650lm
CCT (Correlated Color Temperature)	4000K			
CRI (Color Rendering Index)	Ra 80			
Lens	Asymmetric			
SAFETY				
Reverse Polarity Protection	Yes			
Open Circuit Protection	Yes			
Short Circuit Protection	Yes			
Overload Protection	Yes			
OTHER FEATURES				
Protection Class	IP 65			
LED Lifetime	50.000 Hours			
Operating Temperature	-30°C and +65°C			
Pole Type	Hot Dip Galvanized Polygonal Steel (Optional)			
Pole Height	4m / 6m (Optional)	4m / 6m (Optional)	6m / 8m (Optional)	6m / 8m / 10m (Optional)
Dimming Feature	Programmable			
Adjustable Solar Angle	Yes			
Smart Control	DIM, Microwave Motion Sensor, Smart Power Management, Remote Control			
Smart Power Mode	Yes			
Sensor Type	Microwave Motion Sensor			
Accessories	Remote Control			

* TommaTech GmbH reserves the right to change product specifications without prior notice.

TOMMATECH WALKWAY SOLAR LED LIGHTING

20W



Walkway Solar LED Lighting

TommaTech Solar LED Walkway Lighting Series is perfectly designed by combining new generation high efficiency solar panel technology with lithium battery energy storage systems. Solar LEDs with smart power mode provide long-term and active lighting with the microwave sensor in its structure. Solar LEDs, which can be used in parks, gardens, residential and workplace lighting, offer an aesthetic appearance as well as eliminating the invoice problem. TommaTech Walkway Solar LEDs, which stand out with their functionality, are presented to users with the concept of green energy.

Product Features



High Performance



Durable & Safe Structure



Microwave Motion Sensor



Intelligent Power Management



IP65 Protection Class



LFP (LiFePO₄) Battery Technology



Easy Installation (Plug & Play)



Remote Monitoring Available



Full Protection: Open Circuit, Short Circuit, Overload, Reverse Polarity



High-Efficiency LED Module

MODEL	20W (TT-LED-YY-20W-SV)	20W (TT-LED-YY-20W-SY)
ELECTRICAL SPECIFICATIONS		
Solar Panel Type	TT65 36TN10	
Solar Panel Power	65Wp	
Battery Technology	LFP Battery	
Battery Capacity	230.4Wh (12.8V/18Ah)	307.2Wh (12.8V/24Ah)
LED Module Power	4W-20W (Programmable)	
Charge Controller Type	MPPT (12V/24V)	
Autonomy Duration	Min. 1 Day*	Min. 2 Day*
OPTICAL SPECIFICATIONS		
Luminous Flux	3700lm	
CCT	4000K	
CRI	Ra 80	
Lens	Asymmetric	
SAFETY		
Reverse Polarity Protection	Yes	
Open Circuit Protection	Yes	
Short Circuit Protection	Yes	
Overload Protection	Yes	
OTHER FEATURES		
Protection Class	IP 65	
LED Lifetime	50.000 Hours	
Operating Temperature	-30°C and +65°C	
Pole Type	Electrostatically Painted Galvanized Square Profile Steel	
Pole Height	4m	
Dimming Feature	Programmable	
Adjustable Solar Angle	Yes	
Smart Control	DIM, Microwave Motion Sensor, Smart Power Management, Remote Control	
Smart Power Mode	Yes	
Sensor Type	Microwave Motion Sensor	
Accessories	Remote Control	

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TOMMATECH ECO SERIES WALKWAY SOLAR LED LIGHTING



ECO Series Solar LED Walkway Lighting

The TommaTech ECO Series Walkway Solar LED Lighting is engineered to deliver sustainable illumination by combining high-efficiency solar panel technology with advanced lithium battery storage systems.

Available in 10W and 20W power levels, this compact and efficient system features a smart power mode and integrated microwave sensor to ensure long-lasting and adaptive performance.

Ideal for:

- Streets
- Gardens
- Commercial premises
- Walkways and access paths

By eliminating electricity bills and offering elegant design, this solution combines reliability and sustainability in a single lighting product — aligned with modern green energy principles.

Product Features



High
Performance



Durable & Safe
Structure



Microwave
Motion
Sensor



Intelligent
Power
Management



IP65
Protection
Class



LFP (LiFePO₄)
Battery
Technology

MODEL	10W	20W
ELECTRICAL SPECIFICATIONS		
Solar Panel Type	TT-FLEX-30W	TT-FLEX-30W (x2)
Solar Panel Power	30Wp	60Wp
Battery Technology	LFP Battery	
Battery Capacity	57.6Wh (9.6V/6Ah)	115.2Wh (9.6V/12Ah)
LED Module Power	3W-10W (Programmable)	6W-20W (Programmable)
Charge Controller Type	MPPT (12V/24V)	
Autonomy Duration	Min. 1 Day*	
OPTICAL SPECIFICATIONS		
Luminous Flux	1850lm	3700lm
CCT (Correlated Color Temperature)	4000K	
CRI (Color Rendering Index)	Ra ≥ 80	
Lens	Asymmetric	
SAFETY FEATURES		
Reverse Polarity Protection	Yes	
Open Circuit Protection	Yes	
Short Circuit Protection	Yes	
Overload Protection	Yes	
OTHER FEATURES		
Protection Class (IP Rating)	IP 65	
LED Lifetime	≥ 50.000 Hours	
Operating Temperature	-30°C and +65°C	
Pole Type	Hot-Dip Galvanized Box Profile Steel	
Pole Height	4m	
Dimming Feature	Programmable	
Adjustable Solar Angle	Yes	
Smart Control	DIM, Microwave Motion Sensor, Smart Power Management, Remote Control	
Smart Power Mode	Yes	
Sensor Type	Microwave Motion Sensor	
Accessories	Remote Control	
Warranty	5 Years	

* TommaTech GmbH reserves the right to change product specifications without prior notice.



TOMMATECH WALKWAY SOLAR BOLLARD

Model: 20W

Solar Bollard Light for Walkways



The TommaTech Solar Bollard delivers eco-friendly lighting by harvesting clean solar energy throughout the day. It offers a reliable, aesthetic, and energy-efficient alternative for modern outdoor environments.

Designed for urban lighting, parks, walking paths, and other public areas, this solution is especially suitable for:

- Locations without existing electrical infrastructure
- Projects that aim to minimize installation and operating costs

System Components:

- 1x 20Wp Flexible IBC Solar Panel
- LFP (LiFePO₄) Battery
- TommaTech Inverter
- High-performance LED Module

The solar energy collected during daylight hours is stored in the battery and used for nighttime or low-light illumination — all without grid connection.

Product Features

High Performance

Durable & Safe Structure

Microwave Motion Sensor

Intelligent Power Management

IP65 Protection Class

LFP (LiFePO₄) Battery Technology

Package Code & Key Specs	Solar Panel (Wp)	Max Voltage (V)	Avg. Daily Energy Production (Wh)	Max Charging Current (A)	Panel Surface Area (m ²)
CWT-BLRT-LED-20W	1x20 (IBC)	12.42	80	1.63	0.11













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