TOMMATECH SOLAR LED ROAD / STREET LIGHTING

TOMMATECH GmbH
GERMAN-based company

TommaTech Solar LED Street Lighting is perfectly designed by combining new generation high efficient solar panel technology with lithium battery energy storage systems and is available in 20W, 36W, 58W and 90W power options. Solar LEDs with smart power mode offer long-lasting and active lighting with the microwave sensor in its structure. Can be used in streets, gardens, workplace an road lighting, solar LEDs offer an aesthetic appearance as well as reducing bills. TommaTech Solar LED Street Lighting, which stand out with their functionality, is presented to users with the concept of green energy.

5 -YEARS- Product Warranty

High Performance
High Efficiency LED Module

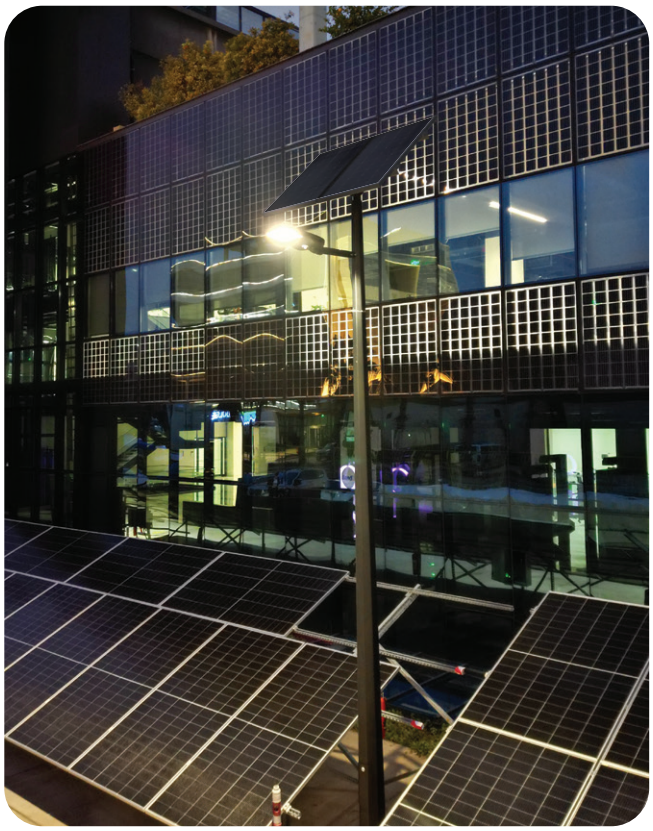
Microwave Sensor
Auto-DIM with microwave sensor

IP65 Rated
IP65 compatible system components

Safe Structure
Open Circuit, Short Circuit,
Over Power and Polarity Protection

Smart Power Management System
Ability to extend the autonomy period up to 4-6 days

LFP Battery Technology
High performance with next-generation Lithium battery technology



- High Efficiency PERC Monocrystalline Solar Panel
- Long Lasting $LiFePO_4$ Battery with Built-in BMS
- MPPT Solar Charge Controller with Constant Current Output
- Automatic DIM with Microwave Sensor
- See Device Information Instantly with Remote Control
- Writing a Program within the Desired Scenario
- Mechanical Optimum Solar Angle Adjustment
- High Efficiency LED Module (≥185lm/W)
- Asymmetric LED Lens with High Light Transmittance (≥95)
- Special Design Aluminum Injection LED Module Housing
- Electrostatic Powder Coated Square Profiled Post with Hot Dip Galvanized Coating
- Open Circuit, Short Circuit, Over Power and Polarity Protection

www.tommatech.de
mail@tommatech.de

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TECHNICAL CHARACTERISTICS (S1-Minimum 1 Day Storage)

ELECTRICAL CHARACTERISTICS	20W	36W	58W	90W
Panel Technology	TT60 36PM12	TT120 36PM12	TT240 48PM12	TT425 108TN10
Panel Power	60Wp	120Wp	240Wp	425Wp
Battery Technology	$LiFePO_4$ Lithium Battery			
Battery Capacity	153.6Wh (12.8V/12Ah)	307.2Wh (12.8V/24Ah)	460.8Wh (25.6V/18Ah)	768.0Wh (25.6V/30Ah)
Led Module Power	4W-20W (Programmable)	7.2W-36W (Programmable)	11.7W-58W (Programmable)	18W-90W (Programmable)
Charge Control Type	MPPT (12V/24V)			
Autonomy Duration	Min. 1 Day*			
OPTICAL CHARACTERISTICS				
Light Power	3700lm	6660lm	10730lm	16650lm
CCT	4000K			
CRI	Ra ≥ 80			
Lens	Asymmetric			
SAFETY				
Reverse Polarity Protection	Available			
Open Circuit Protection	Available			
Short Circuit Protection	Available			
Overload Protection	Available			
OTHER CHARACTERISTICS				
Protection Class	IP 65			
LED Lifetime	≥ 50.000 Hours			
Operating Temperature	-30°C and +65°C			
Post Type	Electrostatic Painted Galvanized Coated Square Profiled Steel			
Post Height	4m / 6m (Optional)	4m / 6m (Optional)	6m / 8m (Optional)	6m / 8m / 10m (Optional)
DIM Feature	Programmable			
Solar Angle Adjustment	Available			
Smart Control	DIM, Microwave Sensor, Intelligent Power Management, Remote Control			
Smart Power Mode	Available			
Sensor Type	Microwave Sensor			
Accessory	Remote Control			

TECHNICAL CHARACTERISTICS (S2-Minimum 2 Days Storage)

ELECTRICAL CHARACTERISTICS	20W	36W	58W	90W
Panel Technology	TT120 36PM12	TT240 48PM12	TT425 108TN10	TT545 108PM12
Panel Power	120Wp	240Wp	425Wp	545Wp
Battery Technology	$LiFePO_4$ Lithium Battery			
Battery Capacity	307.2Wh (12.8V/24Ah)	614.4Wh (25.6V/24Ah)	921.6Wh (25.6V/36Ah)	1382.4Wh (25.6V/54Ah)
Led Module Power	4W-20W (Programmable)	7.2W-36W (Programmable)	11.7W-58W (Programmable)	18W-90W (Programmable)
Charge Control Type	MPPT (12V/24V)			
Autonomy Duration	Min. 2 Day*			
OPTICAL CHARACTERISTICS				
Light Power	3700lm	6660lm	10730lm	16650lm
CCT	4000K			
CRI	Ra ≥ 80			
Lens	Asymmetric			
SAFETY				
Reverse Polarity Protection	Available			
Open Circuit Protection	Available			
Short Circuit Protection	Available			
Overload Protection	Available			
OTHER CHARACTERISTICS				
Protection Class	IP 65			
LED Lifetime	≥ 50.000 Hours			
Operating Temperature	-30°C and +65°C			
Post Type	Electrostatic Painted Galvanized Coated Square Profiled Steel			
Post Height	4m / 6m(Optional)	4m / 6m (Optional)	6m / 8m (Optional)	6m / 8m / 10m (Optional)
DIM Feature	Programmable			
Solar Angle Adjustment	Available			
Smart Control	DIM, Microwave Sensor, Intelligent Power Management, Remote Control			
Smart Power Mode	Available			
Sensor Type	Microwave Sensor			
Accessory	Remote Control			

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mail@tommatech.de

PHYSICAL CHARACTERISTICS

SOLAR LED PACKAGE WITHOUT POLE

(S1-Minimum 1 Day Storage)

20W LED POWER
TT-LED-YA-20W-S1

58W LED POWER
TT-LED-YA-58W-S1

36W LED POWER
TT-LED-YA-36W-S1

90W LED POWER
TT-LED-YA-90W-S1

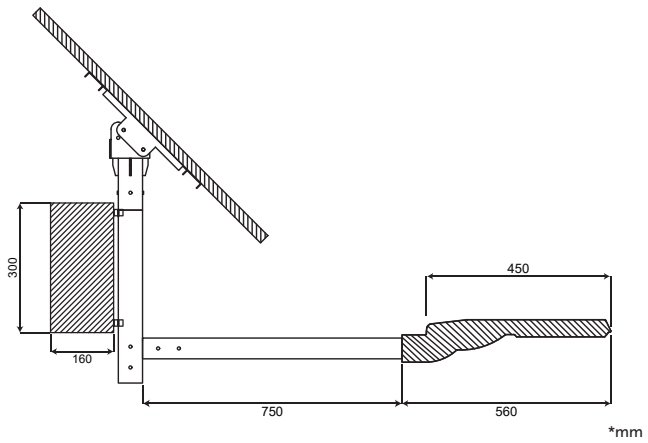
(S2-Minimum 2 Days Storage)

20W LED POWER
TT-LED-YA-20W-S2

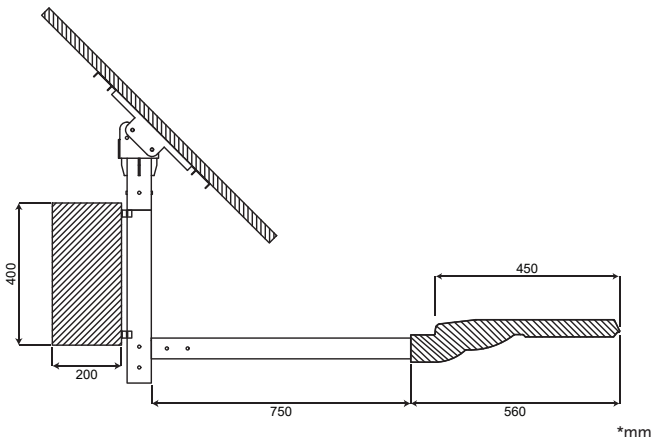
58W LED POWER
TT-LED-YA-58W-S2

36W LED POWER
TT-LED-YA-36W-S2

90W LED POWER
TT-LED-YA-90W-S2



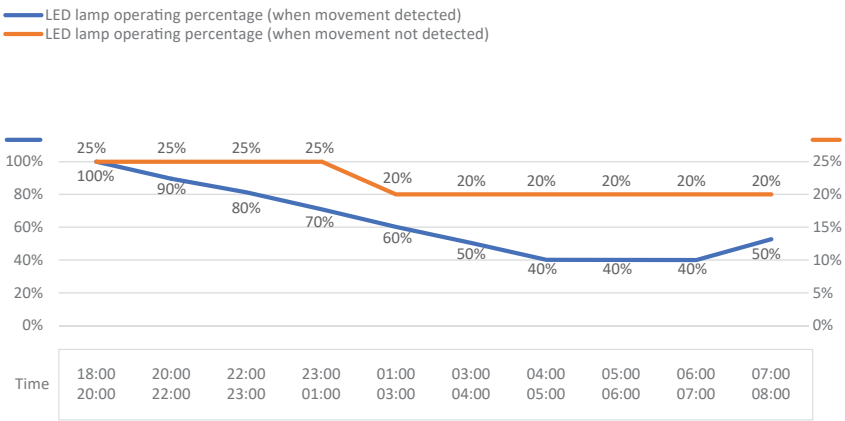
NOTE: The package includes a solar module, a supply panel (LFP battery, charge controller) and an LED light.



NOTE: The package includes a solar module, a supply panel (LFP battery, charge controller) and an LED light.

TECHNICAL CHARACTERISTICS

SOLAR LED OPERATING SCENARIO



NOTE: The night time has been calculated at 14 hours.

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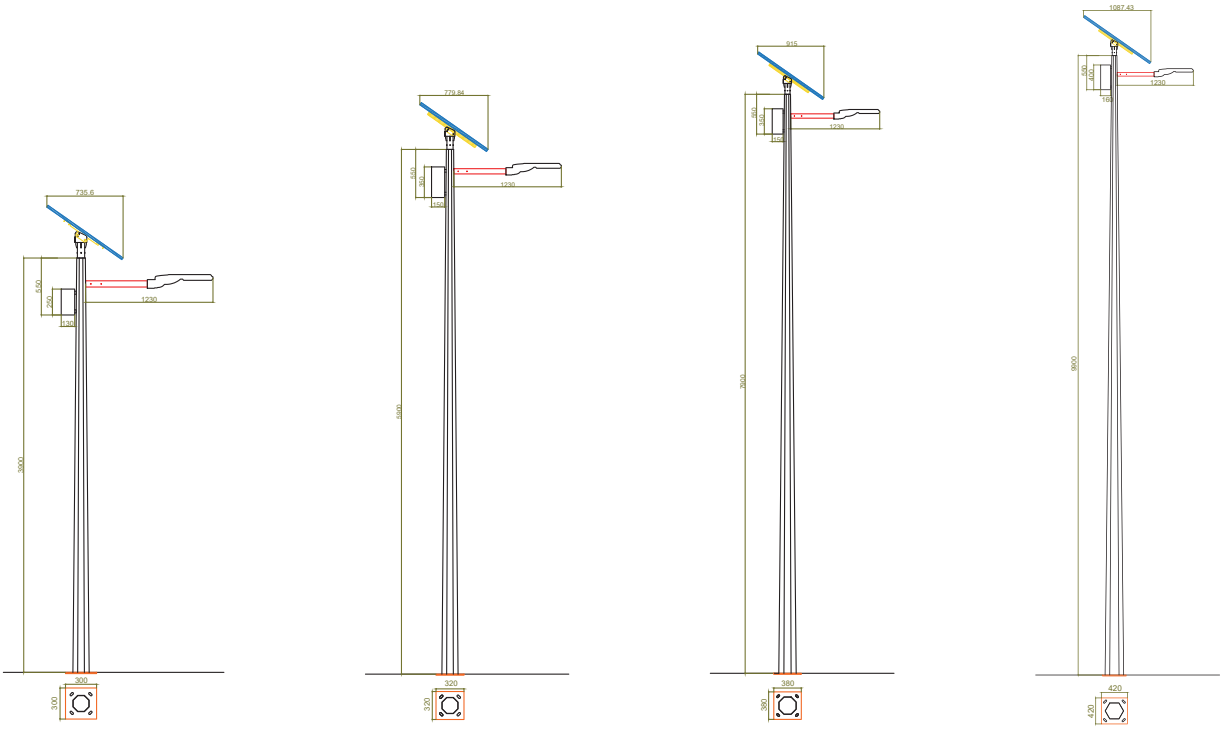
PHYSICAL CHARACTERISTICS

SOLAR LED POLES (OPTIONAL)

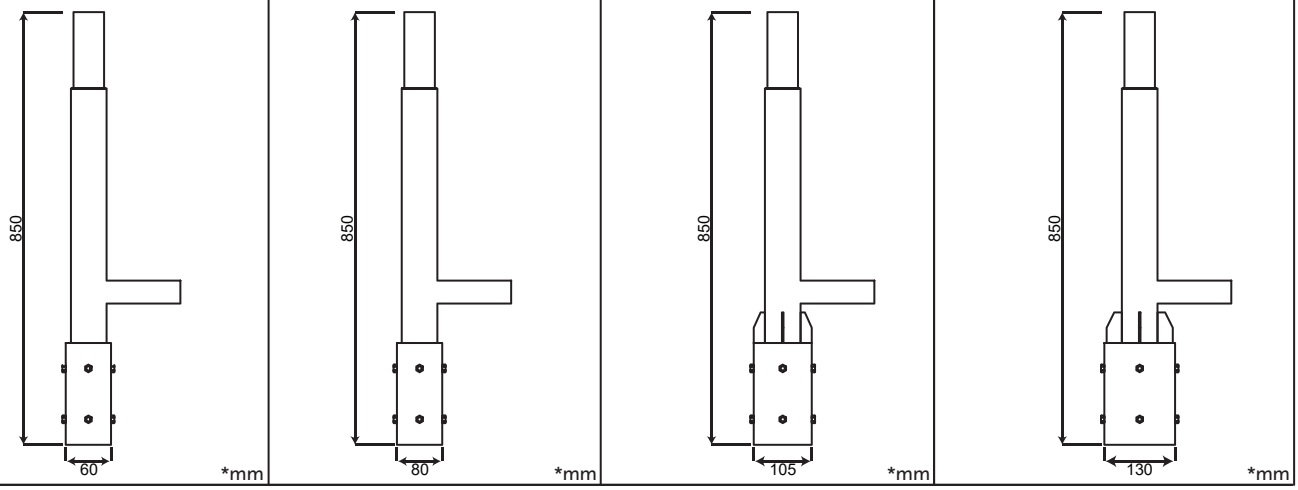
4 Meter Polygonal Steel Pole	6 Meter Polygonal Steel Pole	8 Meter Polygonal Steel Pole	10 Meter Polygonal Steel Pole
SA-AKS-DRK-PLG-4M	SA-AKS-DRK-PLG-6M	SA-AKS-DRK-PLG-8M	SA-AKS-DRK-PLG-10M



*mm

POLE INTERCONNECTORS (OPTIONAL)

Mast Diameter Max. Ø60mm	Mast Diameter Max. Ø80mm	Mast Diameter Max. Ø105mm	Mast Diameter Max. Ø130mm
SA-AKS-BGL-DRK-60MM	SA-AKS-BGL-DRK-80MM	SA-AKS-BGL-DRK-105MM	SA-AKS-BGL-DRK-130MM



NOTE: This is a connecting part that is suitable for different pole types or diameters. You can easily adapt the solar LED kit to your existing pole by selecting the appropriate size from the "pole interconnectors".

* TommaTech reserves the right to change the specification of product without prior notice.
* The charge, discharge, capacity, and cycle values stated above are valid at 25 °C and non-condensing environment.
* Minimum 1 and 2 days autonomy duration is based on 1450kWh/m² -year irradiance (Türkiye average) and default sensor operation scenario (1 night 14 hours).
* Please contact us for your special requests and projects.

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www.tommatech.de
mail@tommatech.de