



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 and 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.



High Performance
Yüksek verimli LED modül



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 LiFePO₄ 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 ($\geq 185\text{lm/W}$)
- 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



TECHNICAL CHARACTERISTICS (S1)

	20W	36W	58W	90W
ELECTRICAL CHARACTERISTICS				
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 Days*			
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	Hot Dip Galvanised Coated Polygonal Steel (Optional)			
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)

	20W	36W	58W	90W
ELECTRICAL CHARACTERISTICS				
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 Days*			
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	Hot Dip Galvanised Coated Polygonal Steel (Optional)			
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			

PHYSICAL CHARACTERISTICS

WITHOUT POLE

20W

TT-LED-YA-20W-S1

TT-LED-YA-20W-S2

36W

TT-LED-YA-36W-S1

TT-LED-YA-36W-S2

58W

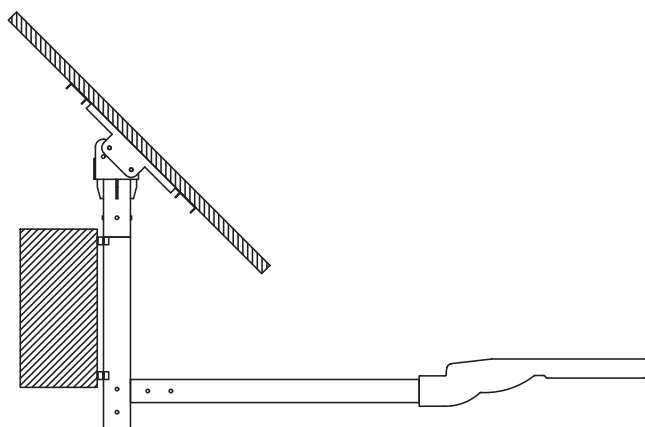
TT-LED-YA-58W-S1

TT-LED-YA-58W-S2

90W

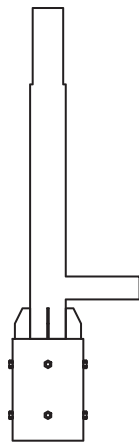
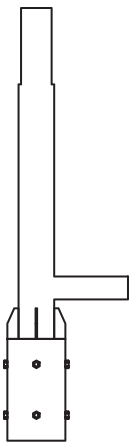
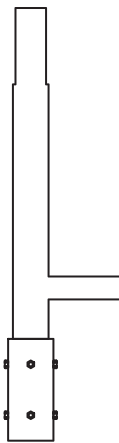
TT-LED-YA-90W-S1

TT-LED-YA-90W-S2



It can be mounted on a pole with a maximum diameter of Ø 60mm.

Optional Pole Interconnectors

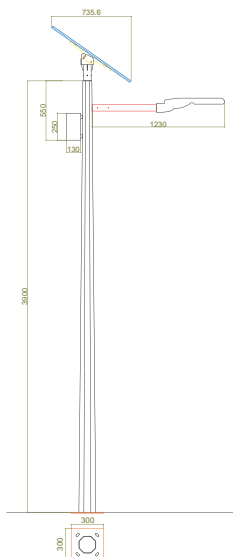
Max. Ø130mm	Max. Ø105mm	Max. Ø80mm
		

PHYSICAL CHARACTERISTICS

WITH POLE (OPTIONAL)

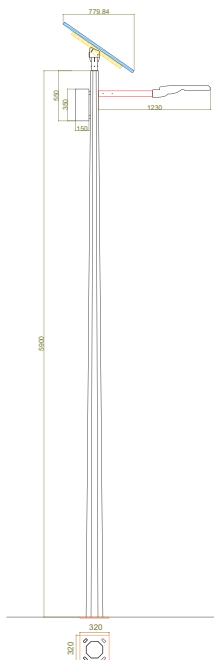
20W

 TT-LED-YA-6M-20W-S1
 TT-LED-YA-4M-20W-S1

 TT-LED-YA-6M-20W-S2
 TT-LED-YA-4M-20W-S2


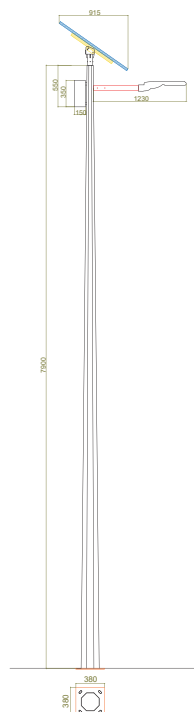
36W

 TT-LED-YA-6M-36W-S1
 TT-LED-YA-4M-36W-S1

 TT-LED-YA-6M-36W-S2
 TT-LED-YA-4M-36W-S2


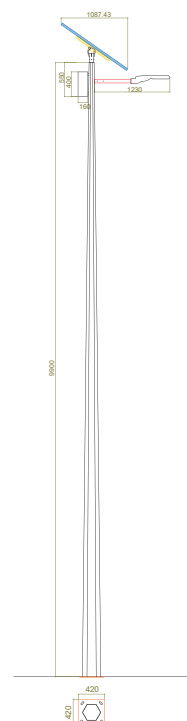
58W

 TT-LED-YA-8M-58W-S1
 TT-LED-YA-6M-58W-S1

 TT-LED-YA-8M-58W-S2
 TT-LED-YA-6M-58W-S2


90W

 TT-LED-YA-10M-90W-S1
 TT-LED-YA-8M-90W-S1
 TT-LED-YA-6M-90W-S1

 TT-LED-YA-10M-90W-S2
 TT-LED-YA-8M-90W-S2
 TT-LED-YA-6M-90W-S2


*mm

*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.

Ver.2309.20