



## SOLAR LED LIGHTING

### CWD-LED-YY-4M-20W-S

CW DEFENCE Solar LED Lighting Series is perfectly designed by combining new generation high efficient solar panel technology with lithium battery energy storage systems. Solar LEDs with smart power mode offer long-lasting and active lighting with the microwave sensor in its structure. Can be used in parks, gardens, residential and workplace lighting, solar LEDs offer an aesthetic appearance as well as reducing bills. CW DEFENCE Solar LED Lighting, which stand out with their functionality, is presented to users with the concept of green energy.



#### 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



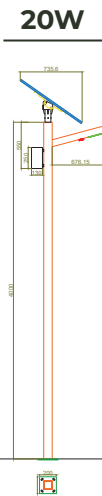
- High Efficiency PERC Monocrystalline Solar Panel
- Long Lasting  $\text{LiFePO}_4$  Battery with Built-in BMS
- MPPT Solar Charge Controller with Constant Current Output
- Automatic DIM with Microwave Sensor
- See Device Information Instantly with Remote Control
- Writing a Program within the Desired 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

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TECHNICAL SPECIFICATIONS

20W	
ELECTRICAL CHARACTERISTICS	
Panel Type	TT120 48PM12
Panel Power	120Wp
Battery Technology	LiFePO <sub>4</sub> Lithium Battery
Battery Capacity	307.2Wh (12.8V/24Ah)
Led Module Power	4W-20W (Programmable)
Charge Control Type	MPPT (12V/24V)
Autonomy Duration	Min. 2 Days
OPTICAL CHARACTERISTICS	
Light Power	3700lm
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
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



\*mm

\* CW DEFENCE reserves the right to change the specifications of the products without prior notice.  
\* The specified charge, discharge, capacity and life values are valid at 25 °C and non-condensing environment.  
\* The minimum autonomy period of 2 days is calculated based on 1450kWh/m2 -year irradiance (Türkiye average) and the assumed sensorized operation scenario (1 night 14 hours).  
\* Please contact us for your special requests and projects.  
\* CW DEFENCE products are project-based products and can realize special projects upon your requests.