



General Information

With Solar Lighting Systems, street, park, beachside and garden lighting projects are realized by placing solar energy panels and batteries to store the energy produced during the day. **Application Areas**







Urban Lighting

Car Park Parks

Environment and Safety

In Solar System lighting projects, the working voltage is usually designed as 12V or 24V. Because batteries and solar panels are generally preferred and produced at these voltages. Using MPPT (maximum power point monitoring) solar charge controller to operate the solar powered systems in accordance with the changing seasons and sunshine conditions, to prevent the batteries from being discharged when the solar panel does not produce energy, to charge the batteries optimally, to prevent the batteries from over-discharge and to use them longer. required. Although these devices are expensive compared to PWM chargers, they are much more efficient devices when cost/benefit is considered. Monocrystalline solar panels are preferred in our solar powered lighting systems. As for the battery, Deep Cycle Gel Battery or Lithium Phosphate batteries are recommended. In our recommendation systems, the most advanced devices and technologies preferred in the sector are preferred and Mono crystal solar panels varying from 165W to 330W and systems with 20W, 30W, 40W, 50W, 60W LED lighting power are recommended according to the desired illuminance value.

Solar Panel	165W	200W	330W		
Battery	100 Ah / 1200 Wh	150 Ah / 1800 Wh	200 Ah / 2400 Wh		
Operating Range	3 Days – 10 Hours/Day	3 Days – 10 Hours/Day	3 Days – 12 Hours/Day		
Battery Type	Deep Cycle GEL Battery / LiFePO4				
Charger	MPPT Solar Charger				





Subsystems and Features

Solar Panel

- High efficiency Monocrystalline Solar Panel
- 24V
- 280W
- Compatible Connector MC4
- IP65 Koruma Sınıfı
- 10 Year System Warranty
- Max. Load: Wind- 2400Pa / Snow 5400 Pa
 - 1640mm x 992mm x 30mm

Valve Regulated Lead-Acid Batteries

- 12V
- 100 Ah
- 330mm x 173mm x 213mm





MPPT Solar Charge Controller

- Load: Lighting Control
- Max. Panel Input: 12V 24V
- Max. Input Capacity: 20-40A (12V) 60A (24V)
- Charge Management: MPPT
- System Voltage: 12-24V
- Operating Temperature: -25°C~60°C
- 13,6 x 7 cm

Street Lighting Luminaire

- Consumption Power: 20W
- Input Voltage: 12
- Body : Aluminum Injection
- Light Source: LED
- Optic : PC Lens
- IP Class : IP66
- Impact Resistance : IK 08
- Efficacy: 140 lm/W
- CRI : > 70
- Operating Temperature: -25°C~60°C





System Architecture



Standard Product Features

Body	: Aluminum Injection	
Refractor	or : High Permeability min. 4mm Tempered Glass	
IP Class	P Class : IP66	
Usage	: Side or Top Entry Mount (Diameter Φ = 50 / 60 mm)	
Light Source	: LED	
Optic	: PC Lens	
Testing Standards	: TS EN 60598, TS EN 62031, TS IEC TR 62471, TS EN 60529, TS EN 62262, TS EN 62722-2-1	

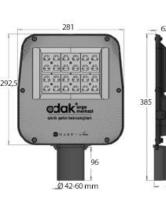
Optic and Electrical Features

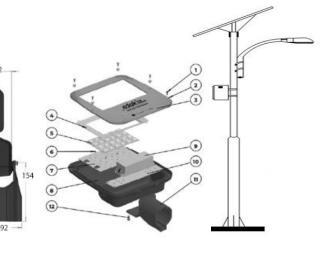
Power	:20W	Input Voltage	: 12V DC
Total Lumens	: 2800 lm	Surge Protection Opt.	: 2kV
Optic	: Asymmetric	Color Temperature	: 4000K - 6000K
Efficacy	: 125 lm/W	CRI	: >70

Other Features

Operationg			
Temperature	:-25°C/+55°C	Lifspan	: 60.000 Hour
Impact Resistance	: IK 08 - IK 10 (Optional)	Cable Gland	: IP66, M16X1.5
Operating Time	: 6 - 14 Hour	Dimensions	:280,5 x 292,5 x 62,0

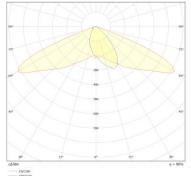
Technical Drawings and Images











Optical Beam Angle: Asymmetric

	Product Code	Power	Input Voltage	Luminous Flux	ССТ	Light Angle	Dimensions
	URS-030M-ASY12-850	30 W	24V DC	4200 lm	2700K – 6500K	ASM	281x385x96
	URS-040M-ASY12-850	40 W	24V DC	5600 lm	2700K – 6500K	ASM	332x440x96
	URS-050M-ASY12-850	50 W	24V DC	6500 lm	2700K – 6500K	ASM	332x440x96
_	URS-060M-ASY12-850	60 W	24V DC	7800 lm	2700K – 6500K	ASM	332x440x96

3-6m



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