

**200+** Patent Certificates  
**\$1,000,000+** Annual Energy Saving  
**20,000+** Projects Successfully Installed



# SC Series LED Solar Garden Light

Power: 10W/20W/30W



Innovative & Tailored  
Lighting Solutions for **Success**  
[www.aokledlight.com](http://www.aokledlight.com)

# Discover **SC** Series



For other certificates please request



## Charging Port

Enable AC charging for added convenience and safeguard the battery during storage to prevent any damage.



### WARRANTY

3 Year Limited Warranty,  
Warranty extension on request.  
Please consult with our sales for detailed agreement.

- Power range: from 10W to 30W;
- Municipal electricity supply optional;
- Using LiFePO4 batteries, with the capability to charge and discharge for over 2000 cycles, offers a safer and relatively smaller size and longer lifespan;
- Continuously work 2-3 rainy days under intelligent mode;
- Die-cast aluminum fixture housing ;
- UV stabilized polyester powder paint finish for durability and corrosion resistance, C5-grade painting;
- Mounting options: Post Top installation;
- Streamlined design to reduce wind resistance;
- Optical systems maintain an IP65 rating;
- ULR=0%, no up light pollution;
- MPPT intelligent controller, features an intelligent energy-saving mode with selectable levels, extending the lighting duration and automatically adjusting brightness.

## Advantages of SC Solar Garden Light



**Streamlined Design  
& Wind Resistance**



**Long Lifespan  
Li-ion Battery & MPPT**



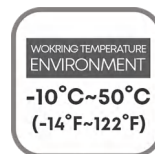
**Intelligent Lighting  
Control**



**Customizable  
Battery Box**

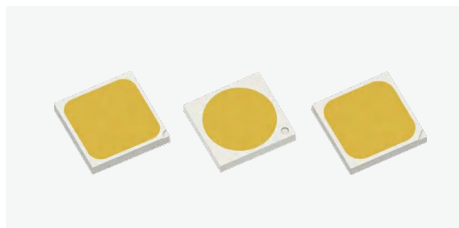


**Monocrystalline  
Silicon Solar Panel**



# Energy-efficient Lighting Systems

Single lumen efficiency **>190lm/W**  
achieve higher illumination



High Efficiency



Long Lifespan



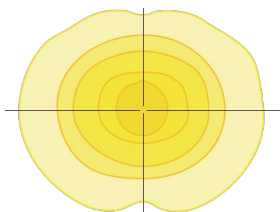
Less Calorific Value



Low Light Decay

- The light engine utilizes cutting-edge energy-efficient LEDs and specialized optics tailored for professional use.
- Featuring 5050 LED chips, our lighting solutions range from high-level specialized lights to cost-effective luminaires of exceptional quality. Custom LED chip options are also available.

## Photometry Design



**T502 (170°\*165°)**

Pedestrian cityscape requires an architectural luminaire to enhance the site by day and to provide visual comfort and security by night.

SC series offers precise optical control up to 190 lumens per watt with distinct optimally designed distributions.

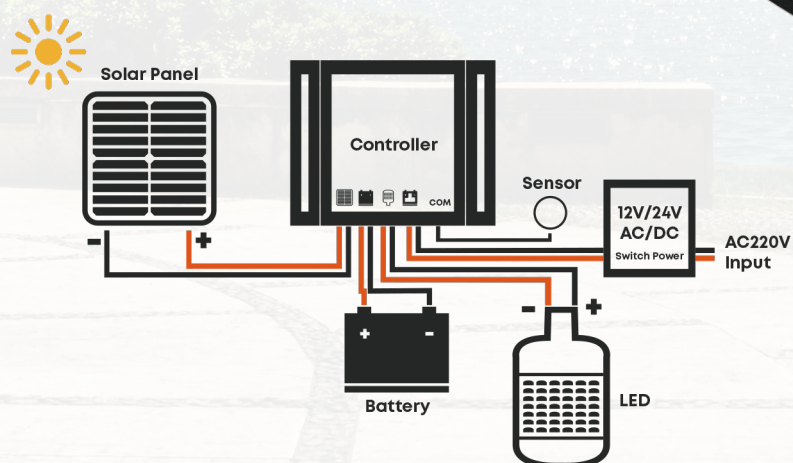
**Other optics types customizable.**

\* Due to working temperature and CCT/CRI adjustments, actual photometric values may vary slightly. Please consult the measured IES file for accurate data. The above information is for reference purposes only.



## Working Way

Municipal Electricity Complementary Solution Optional



Standard Configuration Version



When the battery voltage is lower than the set value, the power supply will switch to mains power, and when the voltage is higher than the set value, it will switch to battery power. The standard configuration does not include mains complementary function.

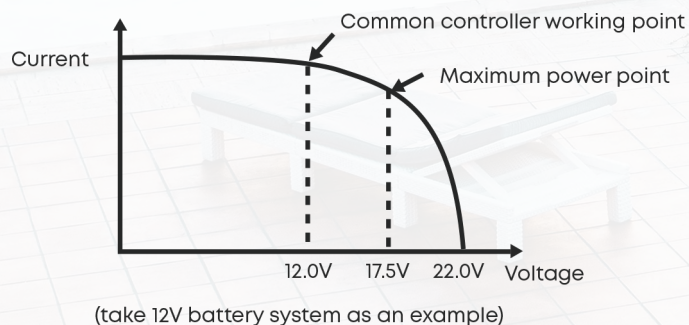


# Application Reference

- Road & street lighting
- Residential area lighting
- Garden, parks & perimeter lighting
- Parking lot lighting
- Industrial and commercial park lighting
- Railway & station side lighting
- Riverside & jogging track lighting

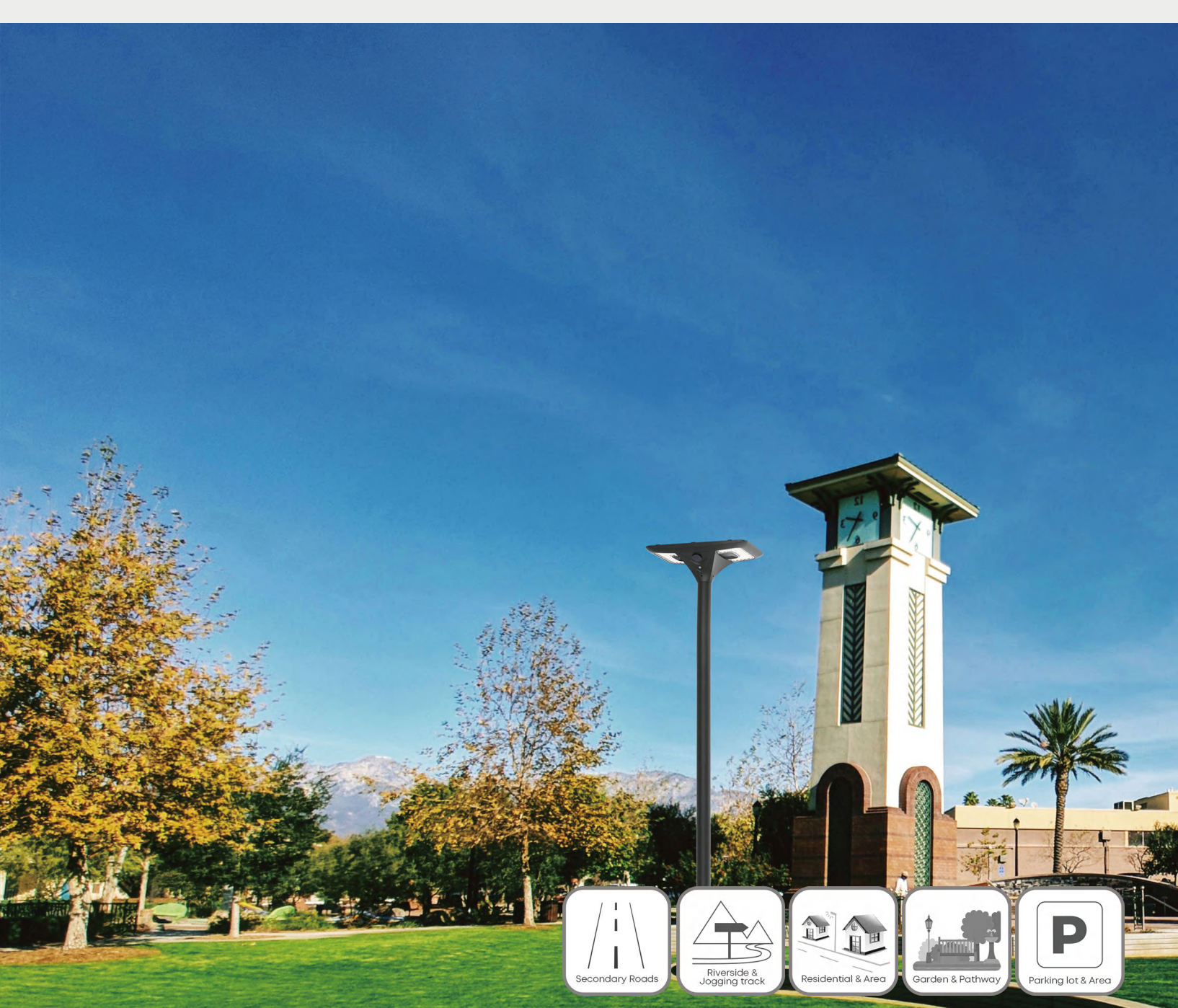


## Advantages of Controller

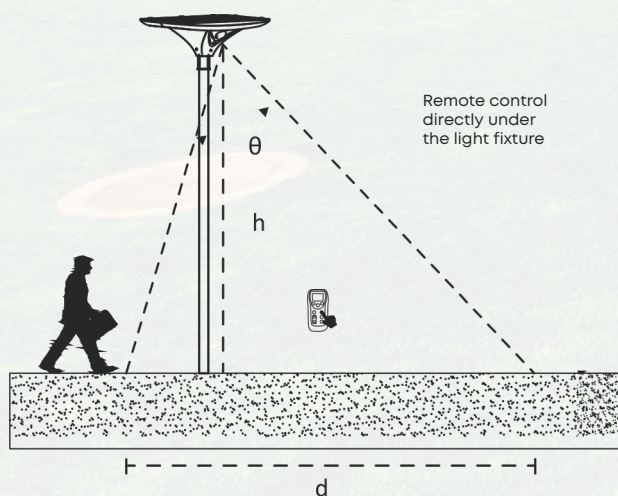


- 1) Moving Track MPPT maximum power tracking technology is adopted to improve the tracking efficiency and speed by more than 20%;
- 2) UltraGreen power control technology with extremely low static power consumption and sleep current;
- 3) 10 time-periods programmable load power/time control;
- 4) Multiple intelligent power modes can be selected, and the load power can be automatically adjusted according to the battery power;
- 5) Multiple protection functions such as battery /PV reverse connection protection, LED short circuit/open circuit/power limit protection;
- 6) Aluminum metal housing, IP67 waterproof rating, can be used in a variety of harsh environments
- 7) Extensible IoT remote communication monitoring function;





## Detection distance



\*Remote control is optional

Remote control distance 5-8 meters, installation height and environment and other factors will affect the controller sensitivity, please refer to the actual field.

Note: Please do not place 2 or more lights within 12 meters at the same time while using the remote controller, receiving or sending may fail.

Inductive Type (alternative)	$\theta$ -Angle (X-axis rotation: 360°)	h (Height of lamp rod)	d (Inductive width)
IR (Infrared)	60°	6-8m	6-10m
WB (Microwave)	65°	6-10m	7-10m

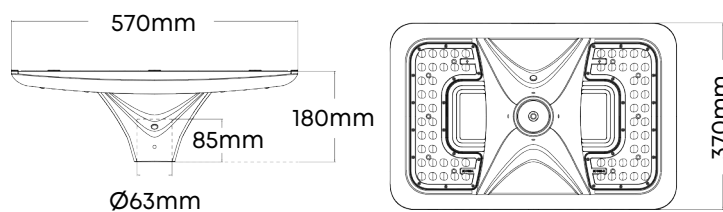
# Parameter Table

Electrical Data			
Model	AOK-SC10	AOK-SC20	AOK-SC30
Power	10W	20W	30W
Control Function	MPPT intelligent controller		
Standard Working Mode	2H: Detected-100%, None-30%; 3H: Detected-70%, None-10%; 7H: Detected-40%, None-10%		
Photometric Data			
LED Model	5050, custom on request		
Efficacy (lm/W, Std Dev ±5%) (CRI 70Ra, 4000K)	190lm/W	190lm/W	190lm/W
Luminous Flux (lm, Std Dev ±5%) (CRI 70Ra, 4000K)	1900lm	3800lm	5700lm
Lens	Polycarbonate		
CCT	3000K, 4000K, 5000K, 5700K, 6500K		
CRI	70Ra		
Mechanical Data			
IP Rating	IP65		
Housing	Aluminum		
Mounting	Round pole (Ø60mm)		
Painting	Black, custom color on request, C5-grade painting, resistance to extreme climates.		
Configuration Data			
Solar Panel	18V, 35W	18V, 35W	18V, 35W
Battery Voltage(AH)	12.8V 6AH	12.8V 12AH	12.8V 18AH
Li-ion Battery(WH)	76.8WH	153.6WH	230.4WH
Charing Time	2-3Hrs	4-5Hrs	7-8Hrs
Run Time(@full power)	6.9Hrs	6.9Hrs	6.9Hrs
Battery Lifespan	>2000 times cycle		
Ambient & Storage	-10°C to 50°C (14°F to 122°F) / -20°C~45°C (-4°F to 113°F)		
Maximum Autonomy	Operate 2~3 rainy days under intelligent model.		
Others			
SCx(EPA)	Top View - 0.249m² (2.68ft²); Front View - 0.045m² (0.48ft²); Side View - 0.042m² (0.45ft²)		
Certification	FCC / CE / RoHS (The company is ISO 9001 and ISO 14001 certified.)		
Product Size	570*370*180 mm / 22.5*14.6*7.1 inches		
Carton Size	645*445*230 mm / 25.4*17.5*9.1 inches		
Net Weight	6.2kg / 13.7 lbs	6.9kg / 15.2 lbs	7.5kg / 16.5 lbs
Gross Weight	8.3kg / 18.3 lbs	9.0kg / 19.8 lbs	9.6kg / 21.2 lbs
Warranty	3 years (Warranty extension on request)		
Recommend Installation Height	3-4m	3-6m	5-7m
Application Field	Road & street, residential area, garden, parks, parking lot, industrial and commercial parks, railway & station side, riverside & jogging track		
Storage Instruction	For long-term storage, it is advisable to first fully charge the battery, then discharge it for 2 to 3 hours. This should be done every 3 months to prevent battery damage.		
Important Note!	The provided information is solely for reference; the official measurement report holds higher authority.		

## Ordering Information

AOK							
MODEL	VOLTAGE	LED CHIPS	TYPE OF SENSOR	CCT&CRI	DISTRIBUTION	MOUNT	HOUSING
10WSC	DC=Solar	A5=5050	00=Without Sensor	3070=3000K 70CRI	T502 (170°165°)	A=Post Top	SI=Silver
20WSC	HB=Hybrid		PIR=PIR Sensor	4070=4000K 70CRI			BK=Black
30WSC	NV=Grid		MS=Microwave Sensor	5070=5000K 70CRI			
				5770=5700K 70CRI			
				6570=6500K 70CRI			

## Dimension



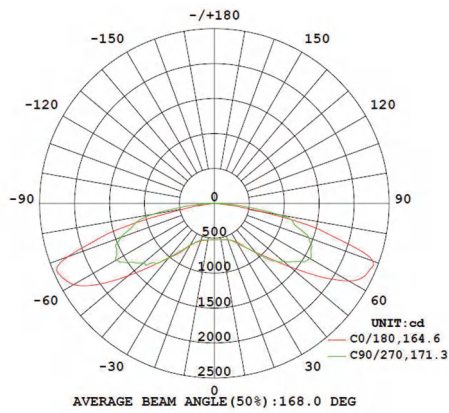
## Housing Color





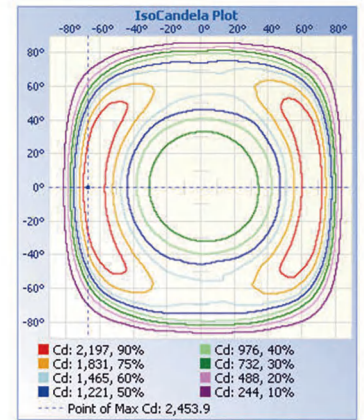
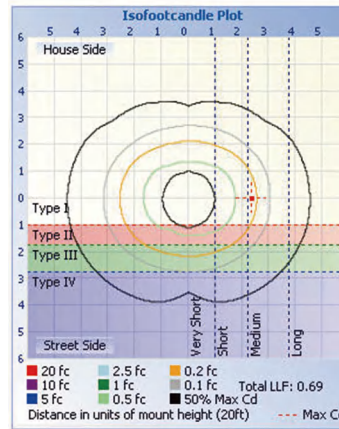
# Photometry

T502 (170\*165°)



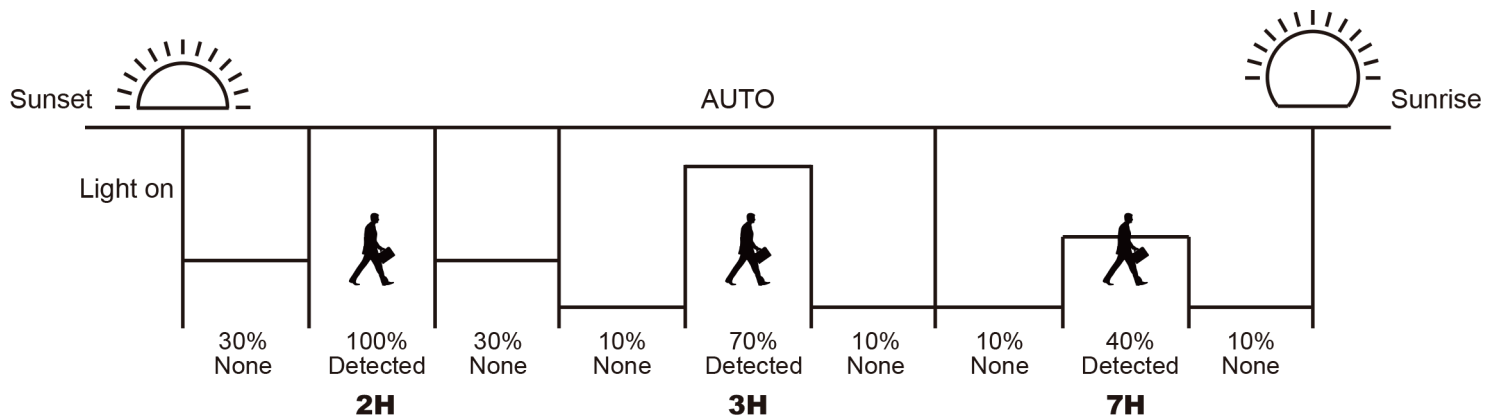
# Illuminance Diagram

T502 (170\*165°)

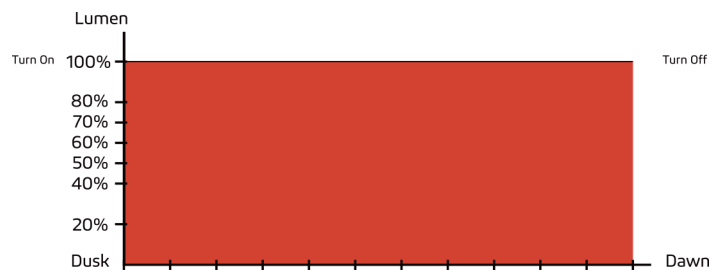


## Autonomy Control Reference

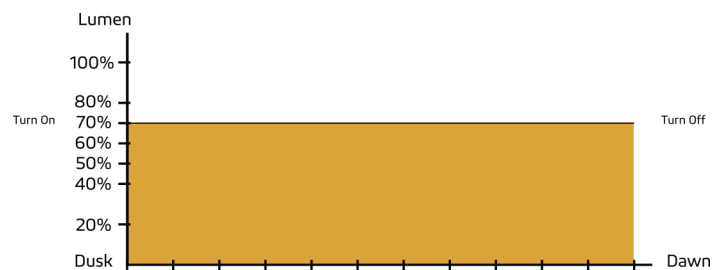
2H-Detected-100%, None-30%;  
3H-Detected-70%, None-10%;  
7H-Detected-40%, None-10%



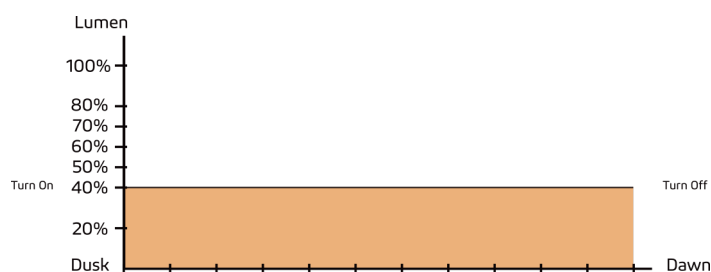
100% CONSTANT MODE  
100% brightness from dusk to dawn.



70% CONSTANT MODE  
70% brightness from dusk to dawn.



40% CONSTANT MODE  
40% brightness from dusk to dawn.





# Innovative & Tailored Lighting Solutions for **Success**



WARRANTY

3 Year Limited Warranty,  
Warranty extension on request.  
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