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Solar Surveillance Power KitLY-SPS-20AH

Main Features:

- ♦ 60W/20AH Solar Power Kit
- ◆ Solar Panel: 18V/60W Monocrystalline silicon
- ◆ Automotive grade Lithium battery: 12V-20AH
- ◆ Battery type: EV MnNiCo ternary 18650 Lithium
- Upgraded solar power kit installation design
- ◆ Hikvision Similar Installation Bracket, truly "Plug and Play", IP67 Waterproof
- ◆ All in one installation design, the lithium battery was embedded and sealed in the metal bracket
- ◆ 2 Year warranty, free replacement within one year
- Accept the solar power supply system customization





Solar Powered CCTV systems are popular and energy saving among worldwide which needs remote surveillance view monitoring of inaccessible or large outdoor site which does not equipped with power supply facilities (eg agriculture, large scale park, industrial, construction sites)

Thanks to the generous gift of the nature, solar power technology brings the entire surveillance camera system to be installed and operated independently without the need for an external power supply.

Highlights

- No Wire, No Hassle, Wiring Cost and Trouble Saving
- Reliable & Independent for Remote Site Monitoring
- Quick and Fast Deployment
- Intelligent and high performance solar power system description:
- 1. Upgraded solar power kit installation design, high stability, easy to install. Battery parameters are exactly same as the old solar power kit, only the battery shell and mounting bracket have been optimized.
- 2. Upgraded solar power kit with built-in battery charge and discharge protection control board and intelligent solar controller, ensure the whole solar power supply process is safe and high efficiency
- 3. Adopt Hikvision similar bracket installation design, truly "plug and play" function, high waterproof performance IP67
- 4. All in one installation design, the lithium battery was embedded and sealed in the metal bracket, space saving, brings nearly 100% high water-proof ability, minimize the defect rate, convenient installation, minimize maintenance costs
- 5. Adopts the high quality materials, high performance charge-discharge lithium battery, ensure long service life.
- 6. All in one package design, brings the arbitrary installation possibilities for users worldwide, especially the DIY users
- 7. 2 Year warranty, free replacement within one year
- 8. Equipped with the automotive grade monocrystalline silicon solar panel+ EV MnNiCo ternary 18650 Lithium battery, heat & cold resistance, temperature



- Detection, etc, ensure a long using life.
- 9. With ultra low consumption (μA standard), no leak happens even when the battery has been idle for one year.
- 10. Solar panel with an-reverse protection, brings nearly zero risks during the installation.
- 11. Adopting the low voltage protection technology, avoid the frequent reboot while the cameras under low voltage mode, it largely reduced the failure rate.
- 12. With the realtime monitoring for the solar panel work condition, lithium battery work condition and the transformation of load power consumption.
- 13. Adopting the newest PID software algorithm, achieve the Maximum power point tracking (MPPT) for the solar panel system, ensure the most effective power input.
- 14. Intelligent solar power system, applied to t any kind of cameras(Such as LS cameras, Hikvision, Dahua, Uniview cameras and so on)

Solar Surveillance Power Kit Datasheet:





Solar Power Kit				
Solar Power Kit Include Items	1PCS Solar Panel, 1 PCS Lithium Battery			
Y	1 Set Bracket, 1 Set Install Screws			
Solar Power Kit Carton Size	84*73*18.5CM			
Solar Power Kit GW	12KG			
Solar Power Kit Model	LY-SPS-20AH			
Solar Panel Info				
Solar panel type	Monocrystalline silicon 60W			
Solar panel	18V/60W			
Voltage/Consumption				
Power tolerance	+3%			



Rated voltage	17.56V
Service life	25 Years
Maximum power	60.46W
Maximum power voltage	17.56V
Maximum current	2.85A
Short-circuit current	3.45A
Open-circuit current	22.32V
Temperature coefficient of ISC	+0.04
TC of VOC	-0.38
TC of Consumption	-0.47
TC of IM	+0.04
TC of VM	-0.38
Temperature range	-40° ~ +85°
Rated current of bypass diode	12A
Load capacity	23m/s, 7.53g
Max load capacity of Surface	2400Pa
Solar panel size	590*679*30mm
Solar panel weight	7.2KG

Lithium Battery Info				
Battery model	BAT01-20AH			
Battery cell	EV MnNiCo ternary 18650 Lithium			
Battery capacity	Min 20Ah,Max 20.6Ah			
Nominal voltage	12V			
Charge/Discharge protection	12.6V/9V			
voltage				
Normal charging current	10A			
Max Charge/Discharge current	20A			
Discharge temperature	-20°~ 60°			
(Recommend)				
Charge temperature	-5°~45°			
(Recommend)				



Solar panel types	18V Monocrystalline / Polycrystalline silicon solar panels, thin-film		
(Recommend)	solar panels		
Solar panel capacity	Total power load ≤100W/D, Suggest to use 50W Solar Panel		
(Recommend)	Total power load >100W/D, Suggest to use 50W-100W Solar Panel		
	1.Solar panel with an-reverse protection		
	2.Support the tracking for the Max power generation efficiency of solar		
	panel		
	3.Support the realtime detection of generation voltage and generation		
	current, and the data upload		
Intelligent Solar power system	4. Support the detection of battery capacity, and the data upload		
	5. Support the detection of total load's realtime current ,and the data		
	upload		
	6. With the low voltage protection technology		
Storage time	≥18 months(25°)		
Battery weight	3.3KG		

Solar Power System Workable Solution:



Model	Solar Panel	Lithium	Scenarios for Reference
100		Battery	
			Ordinary 4G camera
SPS-20AH	PS-20AH 60W	20AH	IP Camera +Bridge
			Ordinary 4G camera/ IP Camera +Bridge/4G PTZ
SPS-30AH	60W	30AH	Camera
			4G PTZ Camera



SPS-40AH	120W	40AH	Several 4G Cameras
			IP PTZ Camera+ Bridge or Several Cameras+ Bridge
SPS-60AH			1 PCS Dahua/Hikvision/Uniview IP PTZ Camera
			Several 4G PTZ Cameras+4G Cameras
	200W	60AH	Several IP PTZ Cameras+ Bridge or Several Cameras+ Bridge
			12/24V Mini Power System(Max 10A Supply Current)
Customization	Yes	Yes	Based on client's demand

60W/20AH Solar Power Kit

Includes Items:





1 PCS 12V 20AH Lithium Battery



1 Set Solar Power Kit Bracket

1PCS 18V 60W Solar Panel



1 Set Install Scews



Solar Power Kit Package:

60W/20AH Solar Power Kit







Solar Power Supply System Installation Demo:

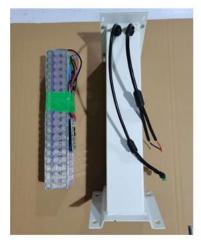




60W/20AH Solar Power Kit Quick Installation Guide

60W/20AH Solar Power Kit

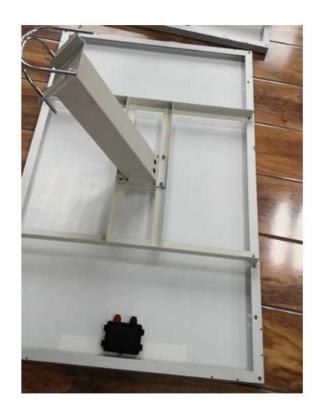
Quick Installation Guide



1.Lithium battery pre-installed in the bracket



2. Tighten the 4pcs screws



3. Finish the Installation