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Solar Surveillance Power Kit

LY-SPS-20AH

Main Features:





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:
- 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.
- 2. With ultra low consumption (µA standard), no leak happens even when the battery has been idle for one year.
- 3. Solar panel with an-reverse protection, brings nearly zero risks during the installation.
- 4. Adopting the low voltage protection technology, avoid the frequent reboot while the cameras under low voltage mode, it largely reduced the failure rate.
- 5. With the realtime monitoring for the solar panel work condition, lithium battery work condition and the transformation of load power consumption.
- 6. Adopting the newest PID software algorithm, achieve the Maximum power point tracking (MPPT) for the solar panel system, ensure the most effective power input.
- 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			
	1 Set Bracket, 1 Set Install Screws			
Solar Power Kit Carton Size	75*67*23CM			
Solar Power Kit GW	18KG			
Solar Power Kit Model	LY-SPS-20AH			
Sola	r 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	$-40^{\circ} \sim +85^{\circ}$			
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 ≤ 100 W/D, Suggest to use 50W Solar Panel	
(Recommend)	Total power load >100W/D, Suggest to use 50W-100W Solar Panel	
10	1.Solar panel with an-reverse protection	
× 0)	2.Support the tracking for the Max power generation efficiency of sola	
	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	
\mathcal{A}	6. With the low voltage protection technology	
Storage time	$\geq 18 \text{ months}(25^{\circ})$	
Battery size	125*100*142mm	
Battery weight	2.5KG	



Solar Power System Workable Solution:



Model	Solar Panel	Lithium	Scenarios for Reference
		Battery	
			Ordinary 4G camera
SPS-20AH	60W	20AH	IP Camera +Bridge
			Ordinary 4G camera/ IP Camera +Bridge/4G PTZ
SPS-30AH	60W	30AH	Camera
		$\rightarrow 0$	4G PTZ Camera
SPS-40AH	120W	40AH	Several 4G Cameras
			IP PTZ Camera+ Bridge or Several Cameras+ Bridge
			1 PCS Dahua/Hikvision/Uniview IP PTZ Camera
	1		Several 4G PTZ Cameras+4G Cameras
	60AH	Several IP PTZ Cameras+ Bridge or Several Cameras+	
SPS-60AH	200W	00AH	Bridge
	20 7		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 18V 60W Solar Panel



1 PCS 12V 20AH Lithium Battery



1 Set Solar Power Kit Bracket



1 Set Install Scews



Solar Power Kit Inside Packing



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Solar Power Supply System Installation:

60W Solar Power Kit Quick Installation



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S4: Battery 12V Output connect to the camera