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Solar Surveillance Power Kit LY-SPS-40AH

Main Features:



◆ Solar Panel: 18V/120W

Monocrystalline silicon

◆ Lithium battery: 12V-40AH

◆ Battery type: EV MnNiCo ternary 18650 Lithium

- ♦ Automotive grade, 3 years warranty
- 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:
- 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.
- 7. Intelligent solar power system, applied to t any kind of cameras(Such as LS cameras, Hikvision, Dahua, Uniview cameras and so on)



Solar Power Supply System Datasheet





Solar Power Kit					
Solar Power Kit Include Items	2PCS 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	23KG				
Solar Power Kit Model	LY-SPS-40AH				
Solar Panel Info					
Solar panel type	2 PCS * Monocrystalline silicon 60W				
Solar panel Voltage/Consumption	18V/120W				
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	15KG(2 PCS)

Lithium Battery Info				
Battery model	BAT01-40AH			
Battery cell	EV MnNiCo ternary 18650 Lithium			
Battery capacity	Min 40Ah,Max 40.9Ah			
Nominal voltage	12V			
Charge/Discharge protection voltage	12.6V/9V			
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,			
(Recommend)	thin-film solar panels			
Solar panel capacity	Total power load ≤100W/D, Suggest to use 100W Solar			
(Recommend)	Panel			
	Total power load >100W/D, Suggest to use 100W-200W			
1,0,	Solar Panel			
4 0 3	1.Solar panel with an-reverse protection			
	2.Support the tracking for the Max power generation			
	efficiency of solar panel			
100	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 size	215*100*142mm
Battery weight	5KG

Solar Power System Workable Solution:



Model	Solar Panel	Lithium	Scenarios for Reference
		Battery	\circ
		1//	Ordinary 4G camera
SPS-20AH	60W	20AH	IP Camera +Bridge
	4		Ordinary 4G camera/ IP Camera +Bridge/4G PTZ
SPS-20AH	60W	20AH	Camera
4	0)	4G PTZ Camera
SPS-40AH	120W	40AH	Several 4G Cameras
C			IP PTZ Camera+ Bridge or Several Cameras+ Bridge
		60AH	1 PCS Dahua/Hikvision/Uniview IP PTZ Camera
SPS-60AH 200W			Several 4G PTZ Cameras+4G Cameras
	20011		Several IP PTZ Cameras+ Bridge or Several Cameras+
	200W		Bridge
			12/24V Mini Power System(Max 10A Supply Current)
Customization	Yes	Yes	Based on client's demand



120W 40AH Solar Power Kit

Includes Items:



1 PCS 12V 40AH Lithium Battery



1 Set Solar Power Kit Bracket



1 Set Install Scews

2 PCS 18V 60W Solar Panel

Solar Power Kit Package:



Solar Power Kit Inside Packing





120W Solar Power Kit Quick Installation





S1/S2: Attach the solar panel and bracket with 4 pcs screws



S3/S4: Open the solar output panel,
Red connector: Positive +,
Black: Negative -





S5/S6/S7: Attach the battery and bracket with 3 pcs long screws

Battery 12V: 12V output connect to the camera