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Solar Surveillance Power Kit

LY-SPS-60AH

Main Features:

• Solar Panel: 18V/200W

Monocrystalline silicon

- Lithium battery: 12V-60AH
- Battery type: EV MnNiCo ternary

18650 Lithium

♦ Automotive grade

 Accept the solar power supply system customization





200W 60AH Intelligent Solar Surveillance Power Kit



Highlights

- 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.
- With ultra low consumption (µA standard), no leak happens even when the battery has been idle for one year.
- Solar panel with an-reverse protection, brings nearly zero risks during the installation.
- Adopting the low voltage protection technology, avoid the frequent reboot while the cameras under low voltage mode, it largely reduced the failure rate.

♦ Intelligent solar power system:

With the realtime monitoring for the solar panel work condition ,lithium battery's work condition and the transformation of load power consumption.

- 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 Power Supply System Datasheet



Solar Panel Info		
Model	LY-SPS-60AH	
Solar panel type	2 PCS * Monocrystalline silicon 100W	
Solar panel Voltage/Consumption	18V/200W	
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	1200*540*30mm	
Solar panel weight	20KG(2 PCS)	



Lithium Battery Info	
Battery model	BAT01-60AH
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 (Recommend)	-20°~ 60°
Charge temperature	-5°~45°
(Recommend)	
Solar panel types	18V Monocrystalline / Polycrystalline silicon solar
(Recommend)	panels, thin-film solar panels
Solar panel capacity	Total power load ≤ 100 W/D, Suggest to use 100W Solar
(Recommend)	Panel Total power load >100W/D, Suggest to use 100W-200W 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
× 0)	5.Support the detection of total load's realtime
	current, and the data upload
	6. With the low voltage protection technology
Storage time	$\geq 18 \text{ months}(25^{\circ})$
Battery size	215*100*142mm
Battery weight	8KG



Solar Lithium Power System Solution:



Solar Panel	Lithium	Scenarios for Reference
	Battery	
		Ordinary 4G camera
60W	20AH	IP Camera +Bridge
		Ordinary 4G camera/ IP Camera +Bridge/4G PTZ
60W	20AH	Camera
		4G PTZ Camera
120W	40AH	Several 4G Cameras
AXA		IP PTZ Camera+ Bridge or Several Cameras+ Bridge
		1 PCS Dahua/Hikvision/Uniview IP PTZ Camera
20		Several 4G PTZ Cameras+4G Cameras
200111	<0 A 11	Several IP PTZ Cameras+ Bridge or Several Cameras+
200W	60AH	Bridge
		12/24V Mini Power System(Max 10A Supply Current)
Yes	Yes	Based on client's demand
	60W 60W 120W 200W	Battery 60W 20AH 60W 20AH 120W 40AH 200W 60AH



Solar Power Supply System Installation:





Brackets:

