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Solar Surveillance Power Kit

LY-SPS-80AH

Main Features:

- ◆ Solar Panel: 18V/200W
Monocrystalline silicon
- ◆ Lithium battery: 12V-80AH
- ◆ Battery type: EV MnNiCo ternary
18650 Lithium
- ◆ Support 12V/24V Dual Output
- ◆ Accept the solar power supply system
customization



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



Model	LY-SPS-80AH
Solar Panel Info	
Solar panel type	2 PCS * Monocrystalline silicon 100W
Solar panel Voltage/Consumption	18V/200W
Power tolerance	+3%
Rated voltage	24.56V
Service life	25 Years
Maximum power	100.46W
Maximum power voltage	25.2V
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	1200*540*30mm
Solar panel weight	20KG(2 PCS)

Lithium Battery Info	
Battery model	BAT01-80AH
Battery cell	EV MnNiCo ternary 18650 Lithium
Battery capacity	Min 80Ah,Max 100.5Ah
Nominal voltage	24V
Charge/Discharge protection voltage	25.2/24V
Normal charging current	10A
Max Charge/Discharge current	20A
Discharge temperature (Recommend)	-20°~ 60°
Charge temperature (Recommend)	-5°~45°
Solar panel types (Recommend)	18V Monocrystalline / Polycrystalline silicon solar panels, thin-film solar panels
Solar panel capacity (Recommend)	Total power load \leq 100W/D, Suggest to use 100W Solar Panel Total power load $>$ 100W/D, Suggest to use 100W-200W Solar Panel
Intelligent Solar power system	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 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	\geq 18 months(25°)
Battery size	215*100*142mm
Battery weight	8KG

**DC12+DC24V Dual Output for High Power Hikvision &
Dahua PTZ Camera:**

