ILLUMIVUE™ BY MSTR

Smart Solar Management Module

SOLAR-KIT-1



Features

- Modular design for easy battery assembly, hanging design for easy solar panel installation.
- Built in high safety, high reliability, and long life lithium battery cell is suitable for a wide range of application scenarios.
- Built in self developed high efficiency solar controller realizes faster charging.
- Visual status indicator allows for easy understanding of the product's operating status.
- Multiple protection functions such as high and low battery temperature protection, overcharge protection, undervoltage protection, etc.
- Metal casing, windproof and rainproof, capable of withstanding harsh outdoor environments.
- Built in heating module can be turned on in a low temperature environment, effectively protecting the battery life and ensuring the safety of charging.
- Back surface field and electrodes are made of high quality metal pastes, ensuring good conductivity.
- High efficiency monocrystalline silicon cell with high photoelectronic conversion efficiency.
- High transmittance tempered glass and UV resistant EVA backsheet materials further improve the conversion efficiency of photovoltaic modules.
- Anodized aluminum alloy frame improves the corrosion resistance and ensures that the components can withstand harsh outdoor environments.
- Allows to overlay the battery percentage OSD on the camera's live video.
- Allows to be used with 4G cameras for surveillance applications in scenarios without power and network.

Specifications

Model	SOLAR-KIT-1
Lithium Battery	
Battery capacity	100 Ah
Rated energy	320 Wh
Limited charge voltage	7 V
Output voltage	9 V to 12.6 V
Maximum output current	2 A
Input interface type	4-pin quick connector (for battery switch)
Output interface type	DC 12 V circular connector
RS485	Support
Dimensions	16.5 × 4.65 × 13.25 in.
Protection function	High/low temperature protection, overcharge protection, undervoltage protection
Solar Panel	
Peak power	60 W
Operating voltage	4.5 V
Operating current	13.33 A
Open circuit voltage	5.4 V
Short circuit current	14.66 A
Cell conversion efficiency	≥ 22%
Output interface type	4-pin quick connector (for battery switch)
Dimensions	30.12 × 15.55 × .98 in.
Operation and Maintenance Module	
Open circuit voltage	12 V
Typical power consumption	0.84 W
Maximum power consumption	2 W
Input interface type	DC 12 V circular connector
RS485	Support
Reset button	Support
Indicator	Blinking green: Normal operation; Steady red: Network error
Dimensions	3.54 × 3.54 × 1.50 in.
Ingress protection	IPX5
Accessory	One-to-two power cable
Specification	
Operating temperature	-4 F to 131 F (discharge)-4 F to 113 F (charge)
Weight	24.91lbs
General	
Suitable pole diameter	2.64” to 4.33”