

S60W40A

Product Pictures



Features

Solar power supply system(including batteries), used with 4G IP cameras.

Installation is simple, can be used with many kinds of IP cameras.

efficiency of solar cell is higher than 96.8%.

Those high quality materials such as toughened glass, EVA, waterproofed solar board and aluminum alloy line protecting all components from harsh environment.

Specifications

Solar panel	Peak power(Pmax)	60W
	Peak voltage(Vmp)	18.17V
	Peak current	3.8A
	Short circuit power supply	3.7A
	Solar cells	36PCS monocrystalline silicon(125x41.66mm)
	Max System Voltage	1000V DC(IEC)/600V(UL)

	WeatherProof Level	IP 65
	Operating temperature	-40°C ~ +85°C
	Solar panel size (mm)	670*630*25
	Battery type	Lithium iron phosphate battery
	Battery capacity	40AH
	Operating voltage	8.25~12.6V
	Continuous current	≤20A
	Instantaneous current	50A
	Charging voltage	12~12.6V
	recharging current	0.5~10A
	Interface line	Discharge: T type / charge: DC type
	Cycle life	1000 times
	Operating temperature	-20°C ~ +60°C
	Battery weight	2.5kg
	Battery size(cm)	33x5.5x7.5
	safety	Overcharge protection, over discharge protection, short circuit protection, excessive current protection
General specification	Bracket material	iron
	Installation	Rack mounting
	Size(W×D×H)(mm)	790*705*225
	Weight(kg)	16kgs

Solar MPPT Controller Specification-12V/10A

Product Features:

1. MPPT function: adopts maximum power point tracking technology, suitable for monocrystalline and polycrystalline silicon panels with different numbers in series, which can significantly improve the utilization efficiency of solar panels;

2. Multiple protections: battery overcharge and overdischarge protection; solar panel input reverse connection protection; output short circuit protection;
3. Output channel: two independent MOS tube control;
4. Communication function: reserved 1 TTL serial port and 1 485 interface, with wireless communication function of the Internet of Things, and can realize remote connection through GPRS/NB-IOT/WIFI;
5. Remote function: Real-time monitoring of solar panel voltage, current, battery voltage, current, output load current, controller function temperature and battery ambient temperature and other system parameters and equipment status through MQTT protocol, and can alarm in real time automatically;
6. Output mode: with manual and timing control output, with 5 optional timing control options;
7. Easy installation: the integrated design of controller and lithium battery is convenient for installation.

Product parameter:

1. Maximum charging current: 10A
2. Maximum output current: 6A
3. The Max. voltage of lithium battery: 12.6V
4. Maximum input voltage of solar panel: 48V
5. Maximum input power of solar panel: 160W
6. Memory function: save function settings, date, time, etc.
7. Communication interface: 1 TTL serial port, 1 485 port
8. Temperature sensor: support 1 acquisition input
9. PC upper computer: can display and set the entire working status and working parameters of the charging system
10. Remote monitoring: remote monitoring and control can be realized through GPRS/NB-IOT/WIFI communication module, which is convenient for customers to manage unified (optional)
11. Charging mode: MPPT maximum power tracking, conversion efficiency > 99%

12. Battery type: 18650 lithium battery, lithium iron phosphate battery

13. Lithium battery capacity: 10AH, 20AH, 30AH, 40AH, 60AH

14. Status display mode: PC upper computer

15. Conversion efficiency: >96%

16. Over temperature protection: -20°C ~ 60°C

17. Working temperature: -20°C ~ 60°C

Charging method:

Charging is divided into three charging methods, using step-down charging

1. Trickle charge: When the battery voltage is lower than the battery low-voltage disconnection voltage, a small current trickle charge method is used

2. MPPT charging: When the battery voltage is between the battery's low-voltage recovery voltage and the float voltage, the maximum current method is used for charging (MPPT charging method)

3. Floating charge: when the battery voltage is higher than the floating charge voltage, the constant voltage regulation float charge method is adopted.

Item	Working status	Ternary lithium battery	Lithium iron phosphate battery
1	Max. Charging Current	10A	6A(30AH) 10A(60AH)
2	Max. Input Current	6A	6A
3	Short circuit protection current	Instantaneous current $\geq 11A$	Instantaneous current $\geq 11A$
4	Cut-off discharge voltage	9.60V	11.20V
5	Protection charging voltage	12.6V	14.20V
6	Start constant voltage charging	12.3V	13.92V

	voltage		
7	Stop output voltage	9.90V	12.00V
8	Restore output voltage	10.20V	12.40V
9	Low Battery voltage error	6.00V	8.00V
10	High Battery voltage error	13.00V	16.00V
11	High temperature battery protection temperature	60°C	60°C
12	Low battery charging temperature	-10°C (It can be done with low temperature batteries to -40°C)	-15°C
13	Low temperature Battery discharge temperature	-20°C (It can be done with low temperature batteries to -40°C)	-20°C

Item	Indicator function	Green LED
1	Charging	Flash
2	Full Charge	Keep lighting
3	System error warning	Slow flashing

Item	Switch function	How to use the switch
1	On	Touch for 1 second
2	Off	Long press for 3 seconds