



Solar Lighting System

Solar Home lighting Systems are powered by solar energy using solar cells that convert solar energy (sunlight) directly to electricity. The electricity is stored in batteries and used for the purpose of lighting whenever required. These systems are useful in non-electrified rural areas and as reliable emergency lighting system for important domestic, commercial and industrial applications. The SPV systems have found important application in the dairy industry for lighting milk collection/ chilling centers mostly located in rural areas.

The Solar Home Lighting system is a fixed installation designed for domestic application. The system comprises of Solar PV Module (Solar Cells), charge controller, battery and lighting system (lamps & fans). The schematic of the HLS is given below. The solar module is installed in the open on roof/terrace - exposed to sunlight and the charge controller and battery are kept inside a protected place in the house. The solar module requires periodic dusting for effective performance.

Some Features:

- a. A universal solar power system for family, office, camping events, as well as field works
- b. An alternative power solution for areas short of public utility
- c. Compact, durable and highly efficient
- d. A home lighting system driving up DC lamps
- e. A charger for cell phone and small electronics gadgets
- f. A handy field power system driving electric screw driver, electric drill, and soldering iron
- g. Maintain-free, insert battery and ready-to-play products,



1. 10W DC Solar Lighting System (DIY box package)

10W solar lighting complete kit

Back up 2 days, Min work time 5 hours

With battery

Solar Module 10 Watt

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CFL Lamp 7 Watt 1PCS
LED Lamp 0.8 Watt 2PCS
Charge Controller (built-in solar module)
Battery (Optional) 12v, 8AH
Accessories
(10m cable, switch, E27 base, fuse)

SS-10W Price Reference			
Order Quantity	Trial Order	Sample	Bulk Order
MOQ(PCS)	200	1~10	1000
Price(US\$)	69.5	80	65.5
Price With Battery	77.5	85	72
Prices Quotated on base of FOB Qingdao in US Dollars including with certain Validity, can be further negotiated for confirmed ordering.			
Lead Time(Days)	15	In Stock	25
Payment Terms:	Sample order T/T or By Western Union, Trial or Bulk Order L/C at sight or 30% deposit, balance on or before the delivery.		

2. Solar Portable System SS-10W(Seperate package)



This 10W mini solar system is very popular since it is efficient, powerful, portable and most convenient for outdoor activities!!

1. Control box(12v 7a/h or 12v 8a/h sealed maintenance free lead acid storage battery ,solar charge controller and safety plug-in socket)

2. 10W Mono or Multiple crystalline solar panels (Iron-glass encapsulated.)

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Solar panel charging socket Input: 17V DC,
AC/DC charging socket input: AC 220V/ 12V DC
Lead acid battery output: 12V DC.

3. Accessory including: 2 pcs 12V/5W lamp with 3pcs 3~5 meters cables, 12v Cigarette lighter cable, 220V AC/12V DC charger.

4. Charging time: 8~10 hours to fully charge the lead acid battery by solar panel; 8-12 hours to fully charge the lead acid battery by 220v A/C or 12v DC power.

5. Lighting time: 20~24 hours when 1 lamp is lighted only. 12~16 hours when 2 lamps are lighted at the same time and 4~6 hours when 3 lamps are lighted at the same time.

6. Multiple functions can supply electricity to **Cell phones, DC TV, electric fans, lamp, cell phone and notebook computer.**

7. Important power source for areas short of public utility

SS-10W Price Reference			
Order Quantity	Trial Order	Sample Order	Bulk Order
MOQ(PCS)	100	1~10	500
Unit Price(US\$)	88	92	83
Lead Time(Days)	7	In Stock	15
Payment Terms:	Sample order T/T or By Western Union, Trial or Bulk Order L/C at sight or 30% deposit, balance on or before the delivery.		
Packing	a. Carton size: 40cm* 30cm* 30cm (2 units per carton) b. Carton volume: 0.036m ³ ; Carton volume weight: 6kg c. Carton gross weight: 12.5kg ; Carton net weight: 10.5kg d. Q'ty/ 20" FCL: 1,554pcs; Q'ty/ 40" FCL: 3,166pcs		

3. Solar portable solar system with Inverter(trolley)

It consists of monocrystal silicon solar module, battery, controller, cabinet and also a series of accessories such as adaptor, universal tapeline, cigar lighter plug and fuse. It has AC 220v/110v, DC 12v and 0~11v continuously adjustable voltage-output. When the sunlight is strong, open the lid of solar power system, the flexible solar panel will absorb solar energy, changes it into power and stores it in battery. When needed, the electric appliances will get power from battery by the port of controller.

It can be charged by not only solar cell, but also AC, electric generator (cigar lighter cut-in), and at the same time, it has malfunction alarm, LED display, voltage-current digital display and other safety protection function, which makes it a "moving power system" providing stable and safety power for power-using equipments.

Accessories:

Fuse: 2 pieces

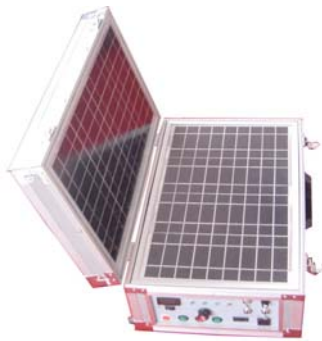
Adaptor: 1 piece

Cigar lighter plug: 1 piece

Universal tieline: 1 piece

Solar power system

Fuse



Adaptor

Cigar lighter plug

Universal plug





NO.	Description	Specification		
		SS-40W	SS-25W	SS-12W
1	Box Size with trolley (mm)	660 x 400 x 300	530 x 360 x 230	330 x 275 x 180
2	Cabinet material	A-alloy with sand-painted	A-alloy with sand-panted	A-alloy with sand-painted
3	Solar Panel	(20wp/17v) x 2	(12.5wp/17v) x 2	(6wp/17v) x 2
4	Weight	37KG	20KG	13KG
5	Battery	12v/24AH(2H) x 2	12v/10AH(2H) x 2	12v/10AH(2H) X 1
6	High Quality Pure Sine Wave Inverter	220V/110V/400W	220V/110V/150W	220V/110V/150W
7	Max. AC Output	400W	150W	150W
8	Max. DC Output	240W	120W	60W
9	Adjustable DC	0-11V/5A	0-11V/5A	0-11V/3A
10	Accessories			
	Adaptor	AC220V/110V,DC13.8V/5A	AC220V/110V,DC13.8V/3A	AC220V/110V,DC13.8V/1A
	Cigar Lighter Plug	20A/1.5M	10A/1.5M	10A/1.5M
	Universal Tieline	20A/1.5M	10A/1.5M	10A/1.5M
	Fuse	20A	10A	5A
11	High voltage Shut-down Point	15v	15v	15v
12	Low voltage Shut-down Point	10.5v	10.5v	10.5v
13	Normal Discharge Current	16A	---	---
14	Max.Discharge Current	20A	10A	10A
15	Sample price FOB	\$680	\$450	\$325
16	MOQ 50pcs price FOB (USD)	\$620	\$410	\$292

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Applications Working Time Tablet Approx

Applications	SS-40W	SS-25W	SS-12W	Remarks
29" Color TV (120W)	4.5H-6H	1.5H-2H	-	DC to AC efficiency about 90%
21" Color TV (70W), Car Cooler(72W)	7.5H-9H	3H-4H	1.5-2H	
17" Black&White TV(40W)	13H-15H	5.5H-7H	3H-4H	
4" DC TV(15W)	34H-38H	14H-16H	8H-10H	
DC Car Cooler(60W)	9H-12H	4H-6H	-	
DC CFL Lamp(12W)	43H-45H	18H-21H	9H-11H	
Home Computer(200W)	2.5H-3H	-	-	
Notebook, FAN(50W)	10H-12H	4.3H-5H	2.5H-3H	
VCD/DVD(20W)	25H-30H	10H-15H	5.5H-8H	
Electric Devices(3~5W)	150H-300H	60H-130H	30H-60H	-
MP3/MP4/CD(1W)	580-700H	240H-400H	120H-200H	-

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