

Mini Solar Light System



— BRONE **hà** 6 —

Operation Manual General Version

Congratulations and thank you for purchasing ours BRONE mini solar light system.

Carefully read, understand and comply with all instructions before use.



Safety Instructions

1. Please read this manual thoroughly before use.
2. Please not to use high power devices beyond the permissible range of the system.
3. Ensure efficient exhaust ventilation in the working area. Keep it from exposure, damp environment and rain.
4. Away from inflammable and explosive materials.
5. Keep out of the reach of children.
6. Overhauling shall only be taken as directed by professionals in the event of the failure of the product instead of changing the internal wiring privately.
7. Prevent the product and solar panel from dropping and shocks. Should any damage be incurred you may switch off the power and approach help from professionals.
8. Use soft dry cloth for cleaning after turning off the main switch. Do not use wax, benzene, thinner, pesticide, air freshener, lube or detergent for cleaning.
9. Never connect to adapter junction box of AC house current or commercial power like house circuit.
10. If the product is not used for a long run, please full charge battery and make sure to turn off system main switch. Please charge the battery in time while the red light of battery power red indicator is on. Otherwise the battery will be damaged and this situation is outside the scope of free warranty.



"No user serviceable parts inside. Do not open or Attempt to open your imole. This will lock your imole and Render your imole warranty void. You will no longer be Able to use your imole until you pay for damages/repairs"

Special Instructions:

**Our company reserves the right to change the product;
The manual is subject to change with technical improvement without notice;
Base on the real product in case of any change of appearance or color.**





Main features:

- 1). Matching solar panel with stand.
- 2). Plastic shell, portable to take along.
- 3). Lithium battery, long time power supply.
- 4). 6V DC outputs to lighten up your world.
- 5). 5V USB output to power your mobile phone.
- 6). Built-in charge controller, with perfect protection.



Technical data:

Model	BRONE ì ñ ò ð 6
System Specification:	
Rated Output Power	15W
Solar Panel	9V 6W(Poly) with stand & 3m solar cable
Solar Charging Time	4H effective sunlight
Solar Battery	7.4V 4.5Ah
	Lithium battery
Solar Charge Controller	6V 2A
AC Output	No
DC Output	3*6V & 1* 5V(500mA) USB
DC Output Current	6Vdc current $\leq 1.5A/PC$, 5V USB current $\leq 0.5A$
Over-load Protection	√
Over-charge Protection	√
Over-discharge Protection	√
Short-circuit Protection	√
Low-voltage Protection	√
Reverse PV & Battery Protection	√
Other Accessories(Standard)	1 x 6V 2W LED bulbs with 5m light cables
	1 x 6V 2W LED bulbs with 10m light cables
	4 in 1 USB phone charger
	USB light 5V 500mA
Certificate	CE & RoHS
Mechanical Data:	
Size of the System Box	L120*W120*H30mm
Net weight of system box	0.30kg
Size of solar panel	L225*W188*H20mm
Net weight of solar panel	0.60kg
Size of Battery	L80*W70*H20mm
Net weight of battery	0.20kg
Optional Accessories:	
	
USB fan (4inch, 2.5W, 5V 500mA)	AC-DC 9V Charge adapter

Appearance (Power Box):



〈Front〉



〈Front side〉



〈Back side〉

Working Indicator Status:

System Voltage	DC6V		
Solar Charge Voltage	< 9V		
Solar Charge Current	Max. 0.7A		
DC Output Current	Max. 1.5A (5V & 12V)		
USB Output Current	Max. 1A		
Main Function	Voltage	LED Indicator	Output Status
Low-voltage Protection	4.8V	"LOW" is on "Output" is off	No output
Under-voltage Caution Cancelled	6.0V	"LOW" is off "Output" is on	Normal output
Normal Charging	/	"Charge" is on	/
Battery Full Charged	8.4V	"Full" is always on	Normal output
Normal Working	/	"Output" is always on	Normal output
Fail to Work	/	"Output" is off	No output
Short-circuit Protection	/	"Output" is off	No output
Battery Reverse Connection	/	All indicators is off	No output
Solar Panel Reverse Connection	/	"Charge" is off	/
Overload Protection	/	"Output" is off	No output

Operation Introduction:

- a). All solar panels which nominal voltage within 9V are allowed to be connected to the "PV IN" connection. The system may couldn't normal work if connect wrong voltage solar panel to the power box. Such damage is outside the scope of free warranty.
- b). 6VDC electricity appliances can be connected to the DC6V outputs, such as 6V LED light, fan, TV etc..
- c). Connect the 5V USB charge cables to the 5V USB output terminal to charge proper mobile phones. Any other 5V USB type appliances such as eye-protection lamp also can be connected to it to get power.

Product Guarantee:

Keep the card for
guarantee to keep
in repair.

Guarantee**User File**

User name		Sex		Age	
Address					
Telephone				Zip	
Purchasing address					
Retail price			Odd Numbers		
Commodity name and specification			Model No.		
Dealer Signature			User Signature		

Guarantee Item

- 1 year upon date of production, we will guarantee to keep the power box in repair. (Not including accessories.)
- 1 year upon date of production, we will guarantee to keep the battery in repair.
- 1 year upon date of production, we will guarantee to keep the solar module in repair.
- Guarantee service is subject to normally using.
- The guarantee do not cover any normal wear and tear, misuse, or which has been damaged through abuse, alteration, improper installation or application, unauthorized service or modification, storage, transportation or resulting from any power failure surges, natural disaster, or other events outside Seller's control.

If the system malfunctions, please call the Customer Service.

Customer Service No:

0814 600 5000

0814 700 9000



Mini Solar Light System



— **BRONE** **hà ò 6** —

Brone Energy Renewables
www.solar-house.com

Customer Service No:
0814 600 5000
0814 700 9000