



Crystal Quest® Solar Panel
Guide & Safety Instructions



ONLINE WARRANTY INFORMATION
CrystalQuest.com/warranty.html

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INTRODUCTION

Clean, quiet portable power in an easy to transport protective case. Stores easily in your vehicle.

- Amorphous solar cells for maximum output in both bright and cloudy conditions
- Versatile Design with built-in adjustment support for optimum sun exposure
- Charging indicator LED
- Easy to transport with built-in handle
- Comes with male and female cigarette lighter adapters, batter terminal clamps, 12VDC outlet and battery shoe for cordless tools

SPECIFICATIONS

Details	
DC Volts	12/24
Wattage (watts)	13
Accessories Included	Cigarette lighter adapter and battery terminal clamps
Amperage (amps)	400 mA
Rated Output	12 VAC24V / 13 W
Panel size	26-1/2 IN. L x 20-1/2 IN. W (open position)

Note: Output will decrease as the panel gets hotter than room temperature (~70° F). Angle, solar intensity, cloud cover and other factors will effect output.



SAFETY INFORMATION

Read this material before using this product. Failure to do so can result in serious injury.

1. Do not stand on or otherwise-apply pressure to panel.
2. Handle solar panel with care, edges may be sharp.
3. Do not focus light on panel.
4. Install out of reach of children
5. Dry solar panels and outdoor-wiring thoroughly while wearing-electrically insulated gloves.
6. Cover all solar panels with an opaque
7. cover, such as a blanket

Adjustment

To increase efficiency:

1. In the Winter, increase the panel's angle by 10°.
2. In the Summer, decrease the angle by up to 10°.
3. In the Spring and Fall, keep the panel at the angle recommended

Angle 1 (around 40°)	Angle 2 (around 36°)	Angle 3 (around 30°)
Good for Northern US and Canada	Good for Central US	Good for Southern US

Select a mounting location for the Solar Charger. The Solar Panels (6,9) should face the Sun, and not be blocked by shadows. The location should allow the Panels to be protected from accidental damage. The location should be a flat, level surface able to support the weight of the Solar Charger, and any additional accessories. Before setup, be sure that the main cable to either the Battery Clamp Adaptor (20), the Barrel Plug Adaptor (21) or either of the Car Adaptors (19,22) will reach from the Solar Charger to the battery to be charged.

To setup, flip open the Solar Charger. Slide the Support Bases (2,12) out from the Right and Left Housing (4,10). Set the Support Rods (3,11) against the Support Bases to lock the Bases in place.

Once proper location and angle have been reached, connect the Cable (15) to the input at the back of the power unit. The blue LED light will illuminate (flash), indicating the Solar Charger is generating electricity.

Latitude	Solar Panel Angle
0-4°	10°
5-20°	Latitude + 5°
21-45°	Latitude + 10°
46-64°	Latitude + 15°
65° or more	80°