

**SPECIFICATIONS**

**#9505 5-Watt Solar Collector**

Solar Cells	5 watt monocrystalline
Fabric	Durable weather and UV resistant Nylon
DC Output Working Power:	15V: 15V -15.5V DC/0.32 amp max 5V USB: 4.7V - 5.3V DC/0.68 amp max 6V: 5.6V- 6.2V DC/0.65 amp max Chain: The combined power output will increase 50-75% with 2 units chained or 100-125% with 3 units chained together.
Note: power ranges are a guideline and based on a bright, sunny day and 100,000 LUX. Actual power output will vary depending on available sunshine and the device being charged.	
Operating Temperature	32°F - 120°F
Weight	16 oz.
Dimensions	25.75" x 7.5" unfolded 7.7" x 7.5" folded
Accessories (included)	1 Barrel power adapter 1 Chainable cable

**#9510 10-Watt Solar Collector**

Solar Cells	10 watt monocrystalline
Fabric	Durable weather and UV resistant Nylon
DC Output Working Power:	15V: 15V -15.5V DC/0.62 amp max 5V USB: 4.7V - 5.3V DC/1.5 amp max 6V: 5.6V- 6.2V DC/1.2 amp max Chain: The combined power output will increase 50-75% with 2 units chained together.
Note: power ranges are a guideline and based on a bright, sunny day and 100,000 LUX. Actual power output will vary depending on available sunshine and the device being charged.	
Operating Temperature	32°F - 120°F
Weight	28 oz.
Dimensions	29" x 11.5" unfolded 8.25" x 11.5" folded
Accessories (included)	1 Barrel power adapter 1 Chainable cable



**CHARGING DATA**

The following is meant as a guideline based on optimum sunshine. Actual charge rates will vary depending on available sunshine and the device being charged. Unplug your device from the Solar Collector when a full charge is achieved or not in use.

Device	9505 5-Watt Solar Collector	9510 10-Watt Solar Collector
7403 Ray 'N Go Battery Cell Use the USB adapter provided with #7403 and connect to the 5V USB port	6-8 Hours	3-4 Hours
9614 14-Watt Power Hub Use the 12V vehicle charger provided with #9614 and the Barrel power adapter provided with the solar collector and connect to the 6V port	6-8 Hours	3-4 Hours
9660 60-Watt Power Cell Use the 12V vehicle charger provided with #9660 and the Barrel power adapter provided with the solar collector and connect to the 15V port	Not recommended under 10 watts capacity. Use 2 or more 5-Watt units.	8-10 Hours
7451 Solar Lantern Use the USB cable provided with the #7451 and connect to the 5V USB port	2-3 Hours	1-2 Hours
6985/6986 Spotlight/Power Pod Use the 12V vehicle charger provided with #6985 or #6986 and the Barrel power adapter provided with the solar collector and connect to the 6V port	3-5 Hours	3-5 Hours (limited by device charge rate)
Cell Phone/Smart Phone For optimum charging use the 5V USB port and your phone's USB charger. You may also use your phone's 12V vehicle charger and the Barrel power adapter provided with the solar collector and connect to the 6V port.	4-8 Hours (depending on device)	2-4 Hours (depending on device)
MP3 Player/iPod For optimum charging use the 5V USB port and your device's USB charger. You may also use your device's 12V vehicle charger and the Barrel power adapter provided with the solar collector and connect to the 6V port.	3-5 Hours (depending on device)	2-4 Hours (depending on device)
GPS For optimum charging use the 5V USB port and your device's USB charger. You may also use your device's 12V vehicle charger and the Barrel power adapter provided with the solar collector and connect to the 6V port.	4-8 Hours (depending on device)	3-5 Hours (depending on device)
eReader/Tablet/iPad For optimum charging use the 5V USB port and your device's USB charger. You may also use your device's 12V vehicle charger and the Barrel power adapter provided with the solar collector and connect to the 6V port.	Not recommended under 10 watts capacity. Use 2 or more 5-watt units.	10-12 hours (depending on device)



**5-Watt & 10-Watt Solar Collectors**

**OPERATING INSTRUCTIONS**



**5-Watt Solar Collector**



**10-Watt Solar Collector**

## Sierra Wave™ #9505 5-Watt Solar Collector Sierra Wave™ #9510 10-Watt Solar Collector

### Section 1

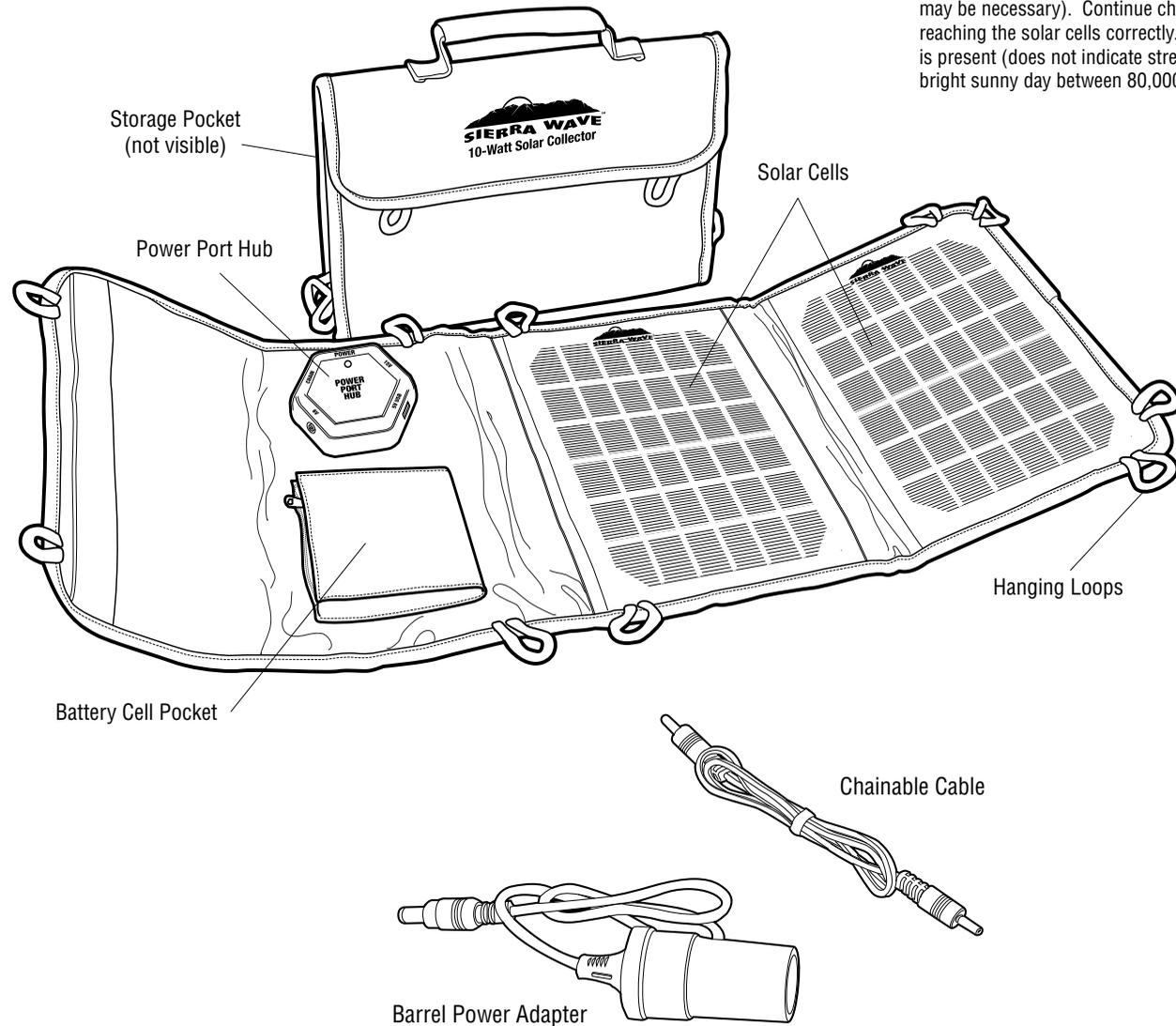
Read all instructions thoroughly before use.

**WARNING: (to reduce the risk of electric shock, injury, or damage to this product)**

- Do Not submerge unit or electrical cord in liquid
- Do Not disassemble solar panel or any accessory
- Stop use immediately if any wires become loose or electronic components are exposed
- Do Not use in flammable or explosive areas
- For optimum performance, protect the solar panels and fabric from dust, dirt and other debris. Clean with a mild detergent and water only.
- Store solar panels folded and in a dry location.

### Section 2

#### PARTS IDENTIFICATION FOR 5- & 10-WATT SOLAR COLLECTORS



### SIERRA WAVE SOLAR COLLECTORS

Sierra Wave foldable solar collection products use very high efficiency monocrystalline solar cells and durable weather resistant materials. The multi-volt POWER PORT HUB provides a variety of power options along with power regulation protection to your device. Use with small electronics devices that utilize a 5V USB adapter, Sierra Wave power storage devices, or Wind 'N Go™, SolaDyne™ and Aervoe® products. Both models include a chainable cable that allows multiple units to be connected to each other to increase solar collection capacity.

### OPERATING INSTRUCTIONS

All instructions pertain the #9505 & #9510 Solar Collectors. Any differences will be noted as needed.

Before use, confirm your electronic device is compatible with this solar collector. Reference the Specifications listed in this user manual.

### Set Up

1. Unfold the SOLAR COLLECTOR and remove the protective film
2. Position the SOLAR CELLS at an angle that directly faces the sun (additional support may be necessary). Continue checking the angle throughout the day to ensure the sun is reaching the solar cells correctly. An LED INDICATOR will illuminate when sun exposure is present (does not indicate strength of the sun). Optimal collection will occur on a bright sunny day between 80,000 and 100,000 LUX value.

### BATTERY CELL POCKET

The POCKET below the POWER POD HUB is designed to hold the #9614 14-Watt Power Hub or the #7403 Battery Cell (sold separately) while charging or for storage. Pull the charging cord through the opening at the bottom of the pocket and plug into the 15V port.

### POWER PORT HUB

There are 4 power ports available: 5V USB, 6V, and 15V and one port dedicated to chaining multiple panels together. Follow the charging instructions provided with your specific electronic device. Charging rates will vary depending on the SOLAR COLLECTOR used and available capacity in your device.

### 5V USB Port

Use with cell phones, eReaders, tablet computers, Sierra Wave and SolaDyne power storage devices, and other devices using a USB adapter

- Connect your electronic device to the port labeled 5V USB using it's USB adapter

### 6V Port

- Use with Sierra Wave, SolaDyne, Wind 'N Go, and Aervoe products
- Connect to the 6V port using the charging cable provided with your device.

### 15V Port

- Store energy in a power storage device or charge other compatible devices.
- Recommend Storage Devices:
  - With the #9505 5-Watt Solar Collector store power in: Sierra Wave #9614 14-Watt Power Hub or SolaDyne #7403 Battery Cell
  - With the #9510 10-Watt Solar Collector store power in: Sierra Wave #9614 14-Watt Power Hub, #9660 60-Watt Power Cell, or Max Burton #6994 Power Center<sub>100</sub>
- Connect the included BARREL POWER ADAPTER to the 15V port and then connect your device's 12V vehicle adapter to your device.

### Chain Port

Multiple SOLAR COLLECTORS may be chained together to increase solar charging capacity by using the included CHAINABLE CABLE.

	5 watts	10 watts	15 watts	20 watts
<b>#9505 Collector</b>	1	2	3 or 1 + 1 #9510	—
<b>#9510 Collector</b>	—	1	1 + 1 #9505	2

Once charging has completed, disconnect the device from the SOLAR COLLECTOR.

### TROUBLESHOOTING

Should you find that your Solar Collector fails to charge your device, follow the instructions below. If the problem persists, contact Aervoe Industries Inc. at [www.aervoe.com](http://www.aervoe.com) or 800-227-0196.

- Make sure the angle of the solar cells are directly facing the sun
- Optimal charging will occur on a bright, sunny day. If there are clouds in the sky charging will be inefficient.
- Check the condition of the solar cells and Power Port Hub for damage
- Check that all cables and adapter tips are firmly connected
- Verify the device you are charging is compatible with the Solar Collector specifications and that it is plugged into the correct voltage port.

**Note:** Some Apple® products may report an error message "This device is not supported" when connected directly to the Solar Collector. Apple devices require a specific power range and the error may be the result of inadequate sunshine or wattage output from the Solar Collector. If this occurs, place the Solar Collector and the device in optimum sunshine or increase the Solar Collector wattage by using a larger collector or chaining more than one together. Some devices may not be compatible.

