

# SPC-9B

## 9-Volt Pocket Battery Charger Guide

### SOLAR MADE . . . Powered by the sun

Congratulations, you have just purchased a very unique solar battery energizer capable of charging 9 volt batteries anywhere in the world through the use of solar energy. For years scientists have experimented with various methods of capturing the abundant energy radiated from our sun. Today solar technology has been advanced to a point where we have learned how to harness and utilize the sun's power.

### SPACE AGE TECHNOLOGY

Your solar battery energizer is powered by means of 26 solar cells which actually converts light into energy. These solar cells, more commonly referred to as photovoltaic (Photo meaning light and voltaic meaning producing electricity) is the result of extensive research and development which went into the space program. The solar cells contained in your solar battery energizer are the same cells being used in space to power satellite and spacecraft today.

### CARE AND MAINTENANCE OF SOLAR CHARGER

Though it may be hard to believe, these lightweight solar cells never wear out or require any maintenance. Do not drop or abuse the solar battery energizer as the material solar cells are made of is similar to glass and will break. We are not responsible for solar cells which are damaged due to mishandling. The clear lens should be kept clean for maximum performance.

### OPERATION OF THE SOLAR CHARGER

Your solar battery energizer will function best when it is placed in direct sunlight. If indoors, place in an east, south or west window. If outdoors, place in a position where it is best exposed to the sun. **Red indicator light will come on when batteries are being charged.** Do not subject the solar battery energizer to an excessive heat location as it will warp the plastic. Remember, it is not heat that provides power, but sunlight.

### 9 VOLT 20 MA POWER SUPPLY

Your solar battery energizer may also be used as a 9 volt 20 milliampere power supply. Dependent on the voltage and current, the solar cells can provide power to DC motors, appliances and some radios. Do not exceed voltage and current specifications when using your battery energizer as a power source.

### BATTERY TYPES:

#### • **NICKEL-METAL HYDRIDE (Ni-MH)**

Nickel-Metal Hydride Batteries will slowly self-discharge at a rate of 1%/day when not in use and must be charged fully prior to using. Newer NiMH batteries do not suffer from the memory effect, batteries hold less charge due to not discharging enough between recharges, and therefore they can be recharged any time after use. New NiMH batteries need to be cycled 3-5 times before they achieve optimum performance.

#### • **NICKEL-CADMIUM BATTERIES (Ni-CD)**

As with Nickel-Metal Hydride Batteries, Nickel-Cadmium Batteries will self-discharge when not in use and must be charged fully prior to using. For best results they should be charged at least once each month or keep spare batteries in the charger on charge as this will not harm them and you will always have a ready supply of fully charged batteries. Ni-CD batteries have a memory effect and should be mostly discharged prior to charging to avoid these effects.

#### • **CARBON-ZINC BATTERIES**

Carbon-Zinc Batteries may be re-energized. For best results, re-energize at the first indication of a loss of power. Extremely weak batteries can become dead and as a result are unsuitable for re-energizing.

#### • **ALKALINE BATTERIES**

Alkaline Batteries may be re-energized, even though manufacturers advise against re-energizing, since the solar charger is current limited.

### **RULE OF THUMB CHARGE RATE: 9 volt – 8 hours of bright sun**

### CAUTION

Do not attempt to recharge or re-energize a battery that is leaking, damaged or corroded. Do not leave Carbon-Zinc or Alkaline Batteries in the charger for other than the recommended charge rates indicated above.

### WARRANTY

SOLAR MADE provides a limited warranty for a period of **120 days** from the date of purchase. This warranty covers materials and workmanship. All warranty returns must have a customer sales receipt attached.

### Solar Made Family of Solar Pocket Chargers:

Models: SPC-1AA	(1) AA/AAA
SPC-2A	(2) D, C or AA
SPC-4	(4) AA/AAA
SPC-9B	(1) 9V

