

SP-7 SolarPulse 12V Solar Charger Maintainer, 7-Watt



Charges, Maintains and Desulfates any 12-Volt Battery Outside

- Works on any 12-volt lead-acid battery (VRLA, AGM, gel and flooded)
- Patented Pulse Technology keeps battery plates clean of damaging sulfate deposits
- High efficiency crystalline solar cells
- Indestructible commercial design
- 50% smaller than competitive products

The SP-7 provides a full 7 watts of power in a compact, durable 10.25"L x 8.85"W x 0.25"H solar panel. That's almost half the size of solar panels used in other 7-watt solar chargers. This and its low mounting profile allow for many installation options on vehicles or equipment stored outside. The solar panel replaces the power loss from electrical accessories that occurs even when the ignition is switched off and PulseTech's patented Pulse Technology reverses the damaging effects of naturally occurring sulfates.

Rated at 450 mA, the SP-7 charges, maintains and desulfates any type of 12-volt lead-acid battery including AGM (maintenance-free), flooded cell, gel cell and VRLA. It utilizes PulseTech's unrivaled solar charging system combined with a patented optimized high-frequency pulsing circuit to ensure batteries start and release maximum power when needed and last up to three times longer.

This uniquely designed solar panel is made of highly efficient proven crystalline silicon photovoltaic cells, encapsulated with a clear polyurethane plastic coating (instead of a breakable glass coating), and mounted on a laminated aluminum substrate back plate that is less than 1/4" thick. This makes the panel virtually indestructible, impervious to weather and resistant to damage. If you've used solar chargers before, you know it's important to choose the right solar panel for the amount of power you need and the size and place of the mounting loca-



tion. In the past to get the power you needed, you had to struggle with panels that were too big, too bulky and too fragile. PulseTech's higher efficiency, higher quality crystalline silicone cells pack more power per square inch and have a longer life than standard amorphous "thin film" cells. That means you can get the power you need in a sturdier, smaller-sized solar panel.

An LED light indicates charge so you know when it's working. The LED shines brightly when the solar panel is in full sunlight and working at optimum level, dims when the panel is exposed to partial sunlight and goes out at night. Reverse polarity protected. Ten-year limited warranty.

Specifications

Input Electrical

Solar Powered

Output Electrical

Output Current 450 mA
Output Voltage, Maximum 16.5 V dc

Environmental

Operating Temperature 0°F to 130°F (-18°C to 54°C)
Storage Temperature 0°F to 150°F (-18°C to 66°C)

Mechanical/Physical Characteristics

Circuit Box Dimensions 3.4" L x 2.4" W x 1.5" H
Solar Panel Dimensions 10.25" L x 8.85" W x 0.25" H
Shipping Weight 2.65 lbs.
Box-to-Lug Wire Length: 3'
Box-to-Panel Wire Length: 17'
Quick Disconnect at Battery

Indicators

Bright LED indicates charging

Ordering Information

735X467

SP-7

Part Number

Model Number

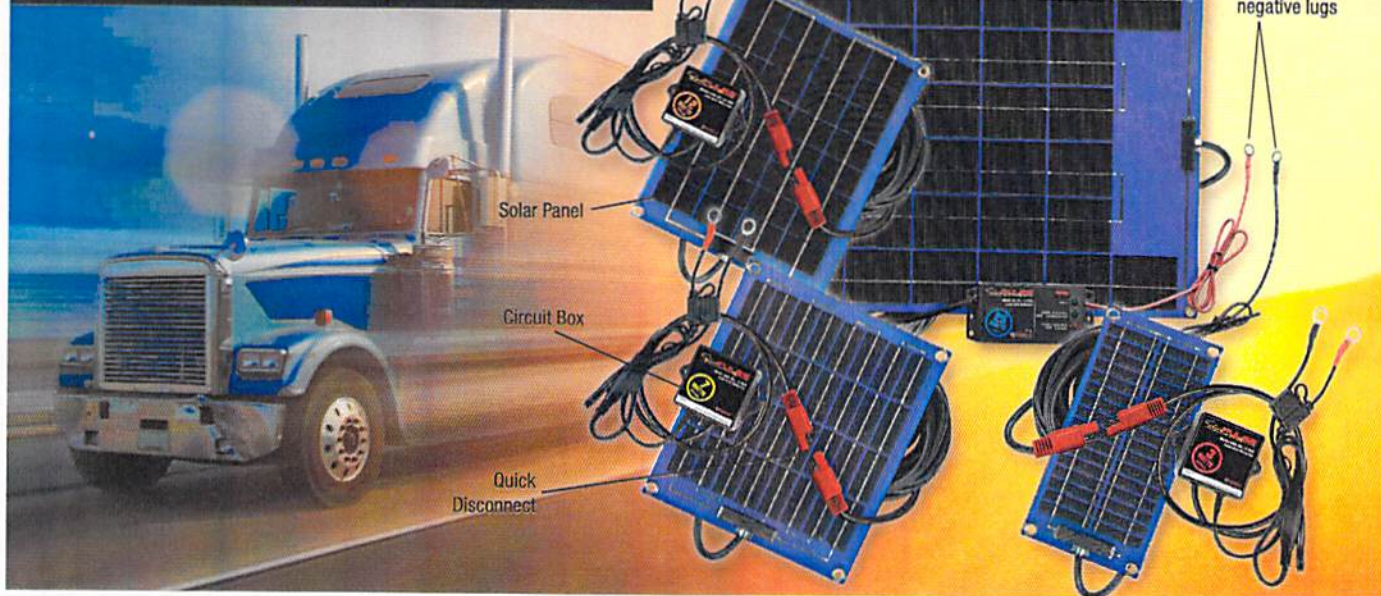


800-580-7554

www.pulsetech.net

INSTALLATION MANUAL

For Models SP-3, SP-7, SP-12 & SP-25



Getting Started

What SolarPulse Can Do For You

SolarPulse is one of the most effective methods available for charging your 12-volt lead-acid batteries. Besides charging, it also uses our patented Pulse Technology® to remove and prevent the buildup of lead-sulfate deposits on your battery plates.

By keeping the plates clean, your battery recharges faster, accepts a full charge and releases all its stored energy.

All of these SolarPulse units have three components:

- Solar Panel with quick disconnect for easier installation
 - Circuit Box housing our exclusive Pulse Technology
 - Positive and Negative Lugs for connecting to the battery
- Installation is quick and easy. Just follow the steps inside.

WARNING: Because of the possibility of personal injury, always use extreme caution when working with batteries.

Specifications

SP-3

Max Charge Current: 240mA
Max Output Voltage: 16.5V
Solar Panel: 4.7"L x 9.45"W x 0.25"H
Circuit Box: 3.4"L x 2.25"W x 1.5"H
Main Cable Length: 17'
Lug Cable Length: 3'
Quick Disconnect at Battery
LED Pulse/Charge Indicator

SP-7

Max Charge Current: 450mA
Maximum Output Voltage: 16.5V
Solar Panel: 10.25"L x 8.85"W x 0.25"H
Circuit Box: 3.4"L x 2.4"W x 1.5"H
Main Cable Length: 17'
Lug Cable Length: 3'
Quick Disconnect at Battery
LED Pulse/Charge Indicator

SP-12

Max Charge Current: 750mA
Maximum Output Voltage: 16.5V
Solar Panel: 12.41"L x 9.85"W x 0.25"H
Circuit Box: 3.4"L x 2.4"W x 1.5"H
Main Cable Length: 17'
Lug Cable Length: 3'
Quick Disconnect at Battery
LED Pulse/Charge Indicator

SP-25

Max Charge Current: 1.6A
Maximum Output Voltage: 16.5V
Solar Panel: 16.13"L x 18.69"W x 0.25"H
Circuit Box: 5.5"L x 2.5"W x 1.2"H
Main Cable Length: 17'
Lug Cable Length: 3'
Quick Disconnect at Battery
LED Pulse/Charge Indicator

Warranty and Warnings

10-Year Limited Warranty

What Does This Warranty Cover? The warranty covers any defects in workmanship or materials in the circuit board in the SolarPulse™ product under normal use and service. **How Long Does The Coverage Last?** This warranty runs for ten (10) years from the date of purchase. **What Will PulseTech Do?** PulseTech will, at its option, replace or repair any defective circuit board with a new or rebuilt circuit board at no charge. **What Does This Warranty Not Cover?** This warranty does not cover any parts other than the circuit board. In addition, PulseTech will not be responsible under this warranty if PulseTech determines that (1) upon examination that the circuit board failure was (A) caused by misuse, neglect, accident, alteration, or abnormal condition of operating or handling (including the failure to install the product in accordance with PulseTech's instructions and observe the warnings on the product and the instruction manual), or other conditions beyond the control of PulseTech or (B) damaged in transit to PulseTech, or (2) the owner is not the original purchaser that purchased the product through an authorized PulseTech dealer or distributor. **IN NO EVENT SHALL PULSETECH BE LIABLE FOR ANY DIRECT, SPECIAL, INDIRECT, CONSEQUENTIAL, INCIDENTAL, PUNITIVE OR EXEMPLARY DAMAGES, EXPENSES, LOST SAVINGS OR LOST PROFITS OR ANY OTHER DAMAGES OF ANY KIND FROM ANY BREACH OF THIS WARRANTY OR OTHERWISE.** Some states, provinces or countries do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you. **How To Get Service?** Send the product postage prepaid with proof of purchase (sales receipt) within the warranty period to the authorized reseller where the product was purchased or contact PulseTech directly by calling (800) 580-7554. **How Does State, Province or Country Law Apply?** This warranty gives you specific legal rights, and you may also have other rights which vary from state to state, province to province or country to country.

THIS WARRANTY IS THE SOLE AND EXCLUSIVE REMEDY AND IS IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY FOR FITNESS FOR A PARTICULAR PURPOSE.

WARNING

The pulsating dc current produced by this product may interfere with the correct operation of some electronic devices when the unit is placed near the antenna. In order to ensure no interference, the circuit box should be placed away from the antenna.

BASIC CLEANING & MAINTENANCE

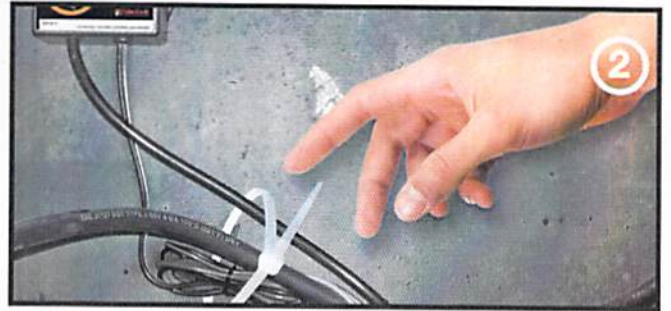
- Be sure to keep the solar panel clean of dirt and dust so that it has optimum access to sunlight.
- The circuit box has no moving parts so maintenance is unnecessary.
- Periodically check to make sure the positive and negative wires are securely fastened to the battery terminals.

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 PRODUCTS CORPORATION

INSTALLATION INSTRUCTIONS For Models SP-3, SP-7, SP-12 & SP-25



The circuit box can be mounted using any of the following methods: Two round-head screws, industrial adhesive, heavy-duty dual lock or double-sided tape (not included). After cleaning the install area, mount the box close to the battery so that the lugs can reach the terminals. DO NOT attach it to the battery itself. Also make sure the box is located in a location where it won't be disturbed and the LED is visible.



If needed, use plastic cable ties (not included) to secure the circuit box wires to the battery cable or other secure area near the battery. This will keep the wires from being damaged or interfering with any moving engine parts.



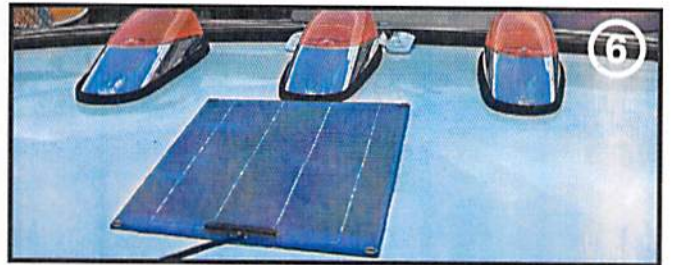
Circuit box includes an LED on top. LED will light when lugs are attached to the battery terminals and solar panel is installed and receiving sunlight. It shines steady in full sunlight and dims in indirect sunlight.



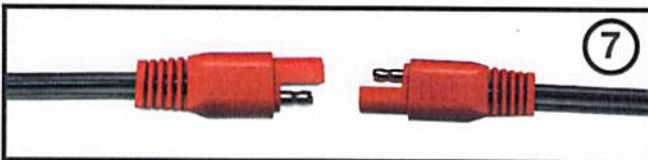
Connect the positive (+) wire to the positive (+) battery terminal. After removing the nut from the bolt securing the battery clamp to the positive terminal, slip the round metal lug at the end of the positive red SolarPulse wire onto the bolt until it sits next to the clamp.



Slip a round washer (not included) onto the bolt until it sits next to the lug. Replace the nut onto the bolt and tighten it until it secures the lug and washer against the clamp. Do not over tighten. Repeat steps 4-5 above to connect the negative (-) black SolarPulse wire to the negative (-) battery terminal.



Mount the solar panel using any of the following methods: Four round-head screws, industrial adhesive, heavy-duty dual lock or double-sided tape (not included). It should be mounted where it will have direct sunlight.



Feed the solar panel cable through any existing opening in the vehicle or equipment into the battery compartment. Connect the quick disconnect plugs on the solar panel and the circuit box cables.

The SolarPulse unit is now ready. Once the panel is exposed to sunlight, SolarPulse will begin charging your battery and preventing/ removing the buildup of lead-sulfate deposits on the battery plates. Note: For the most effective results, we suggest you install SolarPulse permanently. However, if your vehicle or equipment does not allow for a permanent install, a temporary placement will not affect the performance of SolarPulse.

WARNING: Any solvents that may be harmful to plastic should not be used on or near the unit.

WARNING: Do not hold the positive and negative lugs at the same time while the unit is active (receiving sunlight). It may cause a slight electric shock.



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