

# SOLAR Technology

## SolarPulse® Family of Products

SolarPulse solar chargers prevent the normal loss of battery power on vehicles stored outside and apply the high frequency, patented Pulse Technology waveform to each battery. This technology is central to all SolarPulse products. It prevents and removes sulfate deposits on battery plates, the main cause of battery failure, and increases the battery's ability to accept, retain and release energy, enabling batteries to last up to three times longer. When compared with competitors, SolarPulse panels supply the needed power in a sturdier, smaller sized panel allowing for numerous installation options. SolarPulse's higher efficiency, higher quality solar panels pack more power per square inch than standard amorphous "thin film" solar cells, and they have a longer life. They are virtually indestructible and impervious to weather, aging and damage from harsh environments.



### SOLAR MAINTAINER CHARGERS



Name	Stock Number	Wattage	Voltage	Input Electrical	Output Current	Output Voltage, Max.	Solar Panel Dimensions	NSN
12VPSC Solar Battery Charger	735X740	2W	14V	Solar Powered	150mA	28V	8.6" x 5.5" x 0.125"	<a href="#">6130-01-546-8432</a>
SPCS 12V System w/Solar Panel	735X655	2.8W	12V	Solar Powered	155mA	17.4V	8.6" x 5.54" x 0.125"	<a href="#">6130-01-521-1317</a>
24VPSC Solar Battery Charger	735X640	6.3W	24V	Solar Powered	225mA	28V	9" x 11" x 0.125"	<a href="#">6130-01-487-0035</a>
SPCS 24V System w/Solar Panel	735X661	6.3W	24V	Solar Powered	600mA	29.4V	9" x 11" x 0.125"	<a href="#">6130-01-521-1387</a>
24V SPCMS SolarPulse Charge Monitor System w/Slave Receptacle	735X687	6.3W	24V	Solar Powered	200mA	28V	9" x 11.4" x 2.5"	<a href="#">6130-01-558-5371</a>
24VPSC-10W-MK Solar Pulse Charger Desulfator w/Mounting Kit	735X724	10W	33V	Solar Powered	357mA	33V	9.8" x 12.7" x 0.125"	<a href="#">6130-01-688-4857</a>
24VPSC-25W Solar Pulse Charger Desulfator	735X689	25W	33V	Solar Powered	833mA	33V	14.4" x 17.9" x 0.125"	<b>Pending</b>
24VPSC-25W NATO Solar Pulse Charger Desulfator w/Nato Plug	735X712	25W	33V	Solar Powered	833mA	33V	14.4" x 17.9" x 0.125"	<b>Pending</b>
24VPSC-25W, Battery Solar Pulse Charger Desulfator	735X726	25W	33V	Solar Powered	833mA	33V	14.4" x 17.9" x 0.125"	<b>Pending</b>
SP-25 24V PT20MK Battery Solar Pulse Charger Desulfator	735X789	25W	29.6V	Solar Powered	800mA	29.6V	17.88" x 14.34" x 0.2"	<b>Pending</b>
SP-3 12V Solar Battery Charger Maintainer	735X453	3W	12V	Solar Powered	240mA	12V	9.45" x 4.7" x 0.25"	<a href="#">6130-01-388-0245</a>
SP-7 12V Solar Battery Charger Maintainer	735X467	7W	12V	Solar Powered	450mA	12V	10.25" x 8.85" x 0.25"	<a href="#">6130-01-446-7154</a>
SP-10 12V Solar Battery Charger w/Mounting Kit	735X315	10W	12V	Solar Powered	625mA	12V	12.4" x 9.85" x 0.2"	<a href="#">6130-01-688-4859</a>

**24V PSC (735X640) NSN 6130-01-487-0035**  
**12V PSC (735X740) NSN 6130-01-546-8432**

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These Solar Battery Chargers charge and desulfate lead-acid battery systems (conventional flooded, sealed “maintenance-free” VRLA and AGM) on vehicles or equipment stored outside. No AC power is needed when the sun’s energy is harnessed to prevent the normal loss of battery power on stored vehicles, generators and heavy equipment, no matter how long they sit unused.

Our exclusive and patented Pulse Technology reverses the naturally occurring process of battery sulfation - the main cause of battery failure. By reducing the size and number of lead sulfate deposits on the battery plates, the battery will charge deeper, maintain greater reserve capacity and last longer. This allows you to use maintenance resources, previously spent recovering batteries, elsewhere.

Available in two versions, the 6.3-watt 24VPSC charges and desulfates 24-volt batteries, and the 2-watt 12VPSC charges and desulfates 12-volt batteries. Both units provide high frequency optimized pulsing across two, four or six batteries wired in series parallel. Units include mount kits and lugs. One year limited warranty. The 24VPSC is listed in the US Air Force TO 1-1A-15, General Maintenance Instructions for Support Equipment.



DLA Inventory  
Stock Item: NSNs  
6130-01-487-0035  
6130-01-546-8432



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**12V Solar Pulse Charge System and AC Maintainer:**  
**Solar SPCS 12V System (735X655) NSN 6130-01-521-1317**  
**AC Maintainer PCS 12V (735X666) NSN 6130-01-521-1765**

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The 12-Volt Pulse Charge System is ideal for maintenance of all kinds of 12-volt lead- acid batteries in vehicles during long term storage. Use the SPCS 2.8-watt solar panel version when no ac power is available. The PCS model is ideal for indoor or under cover use.

Colored LEDs indicate ac charge status and battery conditioning. The 12-volt system has the capacity to charge and maintain up to six 6-volt batteries with groups of two batteries in series and the groups connected in parallel. One year limited warranty.



DLA Inventory  
Stock Item: NSN  
6130-01-521-1317



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**24V Solar Pulse Charge System and AC Maintainer**  
**Solar SPCS 24V System (735X661) NSN 6130-01-521-1387**  
**AC Maintainer PCS 24V (735X667) NSN 6130-01-521-1329**

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The 24-Volt Charger Maintainer Pulse System is ideal for maintaining 24-volt lead-acid batteries in vehicles and equipment stored on a long-term basis. The PCS version uses ac power for indoor or covered storage applications, and the SPCS model features a 6.3-watt solar panel for on the road or outdoor storage use.

Colored lights indicate ac charge status and battery conditioning. The 24-volt system will charge and maintain up to six 12-volt batteries in series parallel configuration. One year limited warranty.



DLA Inventory  
Stock Item: NSN  
6130-01-521-1329



**24V Solar Application with NATO Plug  
6.3 Watt 24V Solar Pulse Charge Monitor System (735X687)  
NSN 6130-01-558-5371**



DLA Inventory  
Stock Item: NSN  
6130-01-558-5371

The SPCMS is a temporary mounted pulse solar charger that maintains 24-volt lead-acid battery systems on equipment and vehicles kept in long-term outside storage. The sturdy 6.3-watt solar panel provides up to 225 mA of pulsed current in direct sun and is mounted on an angled box for maximum efficiency. Installation is easy – simply secure the panel to the hood, roof or deck of the vehicle, connect the special external heavy duty plug to the slave receptacle and let the sun do the rest.

All of PulseTech's solar panels have higher efficiency, higher quality crystalline silicon cells that pack more power per square inch and have a longer life than standard amorphous "thin film" solar cells. That means you can get the power you need in a sturdier, smaller-sized solar panel.

The three LED indicators instantly provide information on the condition of the batteries. They show when the battery voltage has dropped below 22 volts, when it's being charged or pulsed, when it's fully charged and if the unit is not operating due to insufficient sunlight.

The SPCMS has a cable lead that comes with a special external heavy duty plug designed to fit in a 24-volt receptacle used on some vehicle systems. One year limited warranty.



**10 Watt Solar Pulse Charge Desulfator 24VPSC-10W-MK, w/  
Mounting Kit (735X724) NSN 6130-01-688-4857**

The Solar Pulse Charger (10.0 watt, 357mA) is designed to charge and desulfate all 24-volt battery systems, ensuring maximum battery performance on vehicles and equipment stored outside. You no longer have to depend on an ac source when you can use the power of the sun to keep batteries in peak condition even when the vehicle or equipment is stored for months at a time. It works with any lead-acid batteries (VRLA, AGM, flooded cell and gel) and prevents dead batteries by keeping them in like-new condition all the time, no matter how long stored vehicles or equipment sit unused outside.

This solar charger utilizes PulseTech's patented Pulse Technology, which constantly works to minimize and reduce naturally occurring battery sulfation – the main cause of battery failures. By reducing the size and number of lead sulfate deposits on the battery plates that negatively affect your battery's ability to accept, store and release energy, your battery will charge deeper, maintain greater reserve capacity and last longer – up to three times longer. Safe, reliable and weatherproof, the Solar Pulse Charger prevents dead batteries by keeping them in like-new condition indefinitely. An LED light indicates the circuit is energized and the unit is working. One year limited warranty.



**Solar Mount Bracket Kit for LMTV Snorkel (100X811)**



The PulseTech Bracket Kit is an accessory for the 24VPSC-10W Solar Pulse Charger (735X724), NSN 6130-01-688-4857. This bracket kit is used for quick and secure mounting of the charger to LMTV vehicles that have plastic molded snorkels. It is designed with two shorter brackets at the front and longer brackets at the back to allow for an angled solar panel mount for maximum sun exposure. One year limited warranty.

**SP-3 NSN 6130-01-388-0245**  
**3-Watt 12V Solar Battery Charger (735X453)**

The SP-3 3-watt 12-volt solar battery charger maintainer provides a full two watts of power in a small, durable solar panel. The SP-3 maintains 12-volt batteries in vehicles and equipment stored outside and reverses the negative effects of damaging sulfate crystals on the battery plates. The power of the sun is combined with patented high frequency pulsing circuitry, allowing batteries to accept, store and release maximum power. These conditioned batteries work at maximum capacity, even after sitting in an unused vehicle.

A bright LED indicates optimal full sunlight and dims in partial sunlight. Panel has eyelet holes for easy installation. The charger is reverse polarity protected. Ten-year limited warranty.



**SP-7 NSN 6130-01-446-7154**  
**7-Watt 12V Solar Battery Charger (735X467)**

The PulseTech SP-7 SolarPulse 7-Watt Solar Charging System charges and maintains any 12-Volt lead-acid battery (VRLA, AGM, gel and flooded cell) and solves battery problems for anyone using two batteries connected in parallel. Pulse Technology reverses sulfate crystal buildup on the battery plates extending battery power and life up to three times. SolarPulse's higher efficiency, higher quality crystalline silicon cells pack more power per square inch than competitive products. Plastic coated panels are virtually indestructible.

The SP-7 charging system 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 solar chargers so that you have the most installation options for your vehicle or equipment. Ten-year limited warranty.



**SP-10 NSN 6130-01-688-4859 10-Watt 12V Solar Battery**  
**Charger with Mounting Kit (735X315)**

SP-10 SolarPulse Solar Charger extends battery life by three times, supporting the demands from the field for a more powerful solar panel. Multiple batteries in parallel can be charged with this panel.

The PulseTech® SP-10 SolarPulse Battery Charger Maintainer supplies pulsed current to charge, maintain and desulfate any 12-volt lead-acid battery including VRLA, AGM, Gel and flooded cell on outdoor vehicles and equipment, without danger of overcharging or overheating. It is ideal for charging 12-volt lead-acid batteries connected in parallel. The power of the sun is combined with patented high frequency pulsing circuitry, allowing batteries to accept, store and release maximum power, even after sitting in an unused vehicle.

SolarPulse's crystalline silicon cells pack more power per square inch than standard amorphous "thin film" solar cells, and they have a longer life. The solar panel is protected with a clear polyurethane plastic coating mounted on a laminated aluminum substrate, making it virtually indestructible.

The SP-10 features a bright LED that indicates optimal full sunlight when fully lit and partial sunlight when it dims. This unit is reverse polarity protected. It includes heavy duty quick-disconnect terminals, four corner mounting grommets, weatherproof connectors and a 17' flexible power cable. A hardware mounting kit is included. Ten-year limited warranty.



SolarPulse Specifications			
	SP-3	SP-7	SP-10
Wattage	3 W	7 W	10 W
Output Current	240 mA	450 mA	625 mA
Input Current	Solar Power	Solar Power	Solar Power
Solar Panel Dimensions (L x W x H)	9.45" x 4.70" x 0.25"	10.25" x 8.85" x 0.25"	12.41" x 9.85" x 0.2"
Circuit Box Dimensions (L x W x H)	3.4" x 2.25" x 1.5"	3.4" x 2.4" x 1.5"	3.4" x 2.4" x 1.5"
Box to Lug Wire Length	3'	3'	3'
Box to Panel Wire Length	17'	17'	17'

Charger	Install On Vehicle With:
SP-3	1 - 12V Battery
SP-7	2 - 12V Batteries
SP-10	3-4 - 12V Batteries