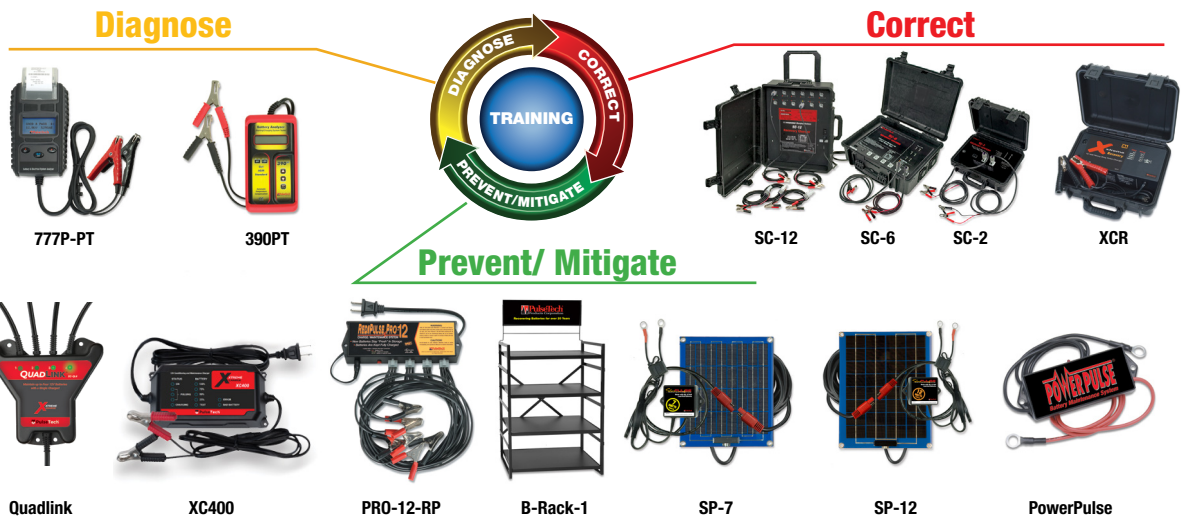




GENERAL PRODUCT CATALOG

PulseTech Products

Battery Recovery, Charging, Maintenance and Testing Equipment



Applying the battery maintenance philosophy through proper use of the tools below will help you to:

- Extend battery life by up to three times
- Extend alternator and starter life
- Dramatically reduce jump starts
- Remove sulfates from battery plates
- Recover 70% of spent batteries
- Reduce the number of new batteries purchased
- Reduce vehicle downtime
- Increase battery efficiency and power

PulseTech – What we do and Why:

For many years, PulseTech™ Products have been improving battery performance and saving money for consumers, fleets of all sizes and the US Military worldwide keeping them all ready for action. PulseTech's patented technology helps lead acid batteries perform better by increasing their ability to accept, store, and release energy. This allows them to maintain their state of charge longer and accept recharge more readily, extending battery life by as much as three times.

An Environmentally Friendly Powerhouse

Up to 70% of batteries otherwise thought to be “dead” are recoverable, reducing the number of old used batteries in our environment, reducing costs for our customers, and increasing vehicle and fleet equipment readiness.

How to Order



- Online at www.pulsetech.com
- Phone us at 800-580-7554 (Toll free in US & Canada) or 817-329-6099 (Local & International)
- Email us at ppc@pulsetech.com
- Fax POs to 817-329-5914



INDUSTRIAL PRODUCTS AND SERVICES
 47QSWA22D005V FSC Schedule MAS
 Cage 00NQ8 * Class: Small Business
 Effective Dates 06/01/2022 - 05/31/2027
 Payment By Government Credit Card Or Purchase Order
 Standard Ground Freight Prepaid (CONUS)

Pulse Technology

Recover, Don't Replace Your Batteries



Extend the Life of Your Battery Up To Three Times

Through years of product development and independent scientific evaluation, it has been proven that if used routinely, Pulse Technology can extend battery life cycles up to three times. This reduces overall costs and environmental waste. Pulse Technology uniquely positions PulseTech's line-up of battery maintenance products and no other known battery charging/maintenance system offers these specific restorative maintenance characteristics.

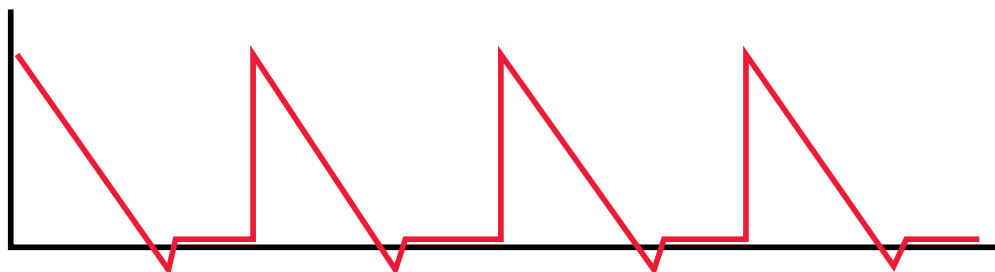


Battery Sulfation

Battery sulfation is a naturally occurring "disease" within any lead acid battery that kills 80% of batteries worldwide. Through the proper maintenance application of PulseTech's patented Pulse Technology this problem can be eliminated. It is the ultimate solution for removing and preventing the power robbing growth of sulfate crystals on lead-acid battery plates. Without the application of Pulse Technology, over time, sulfates build up until your battery's efficiency is gradually diminished, preventing the battery from accepting and releasing energy, dramatically shortening your battery's life until it can no longer function.

The Science Behind Patented Pulse Technology

Pulse Technology is delivered to the battery through a circuit that is independent of the charging circuit. This patented, high-frequency pulse waveform is of a specific amplitude and frequency that is precisely controlled by microprocessors. It rises rapidly in less than one microsecond to its maximum amplitude and gradually returns to zero. There is no abrupt stop and no battery drain. This waveform occurs 25,000 times a second and has been PROVEN through university and military studies to remove sulfation from the battery plates and return the lead sulfate back to the electrolyte solution.



Pulse Technology Waveform

Visual Proof of Pulse Technology Results

The photos below are from an independent study comparing the use of Pulse Technology to conventional battery charging. The photos show actual battery plates after various charge and discharge cycles, which reveal the benefits of charging with Pulse Technology versus charging with a conventional charger.

12-Volt Lead-Acid Batteries Charged with Typical Charger

This row of battery plate images show plates from actual batteries charged with a competitor's battery charger, the white sulfate crystal deposit build up is common in batteries either left un-maintained or charged with a common battery charger.



New – Never Filled
0 Cycles

120 Cycles

240 Cycles

360 Cycles

480 Cycles

This row of battery plate images shows plates from actual batteries charged using PulseTech's patented Pulse Technology. Even after hundreds of cycles, the batteries charged using Pulse Technology have no sulfate accumulation, ensuring the batteries will still perform at peak capacity and live a long and useful life.



12-Volt Lead-Acid Batteries Charged with PulseTech Charger

Solar Technology

SolarPulse® Family of Products

- Optimize unit performance by increasing battery life
- Offset parasitic loads and keep batteries charged all day
- Increase unit uptime and help ensure 24/7 asset tracking
- Reduce unexpected breakdown and downtime costs
- Optimized to off-set vehicle telematics loads
- Light and low-profile for improved mounting options
- Perfect for additional battery charge, maintenance and conditioning for your daily used vehicle or equipment

The new SolarPulse family of high-power solar charging solutions feature the best of what PulseTech has to offer in solar battery charging. They deliver clean, reliable energy for a wide variety of applications, resulting in higher performing extended battery life, electrical system longevity, lower fuel con-

sumption, reduced downtime, emissions and waste. These SolarPulse kits feature high-efficiency monocrystalline solar cells that have proven to play an essential role in any fleet sustainability program, increasing profitability while paying for themselves.



GO THE DISTANCE WITH SOLAR POWER.

Stay Powered

Dramatically reduce jump starts and dead batteries with constantly conditioned and maintained batteries.

Save Money

Save money by extending battery life and reducing battery related expenses.



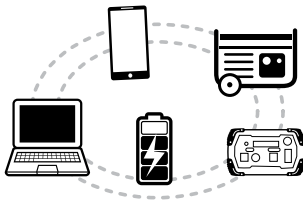
Reduce Waste

Help the environment by keeping batteries in service longer.

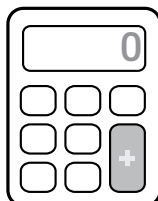


CALCULATE YOUR SOLAR POWER NEEDS

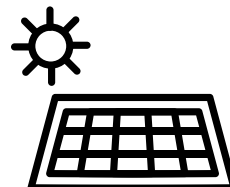
Choose the right SolarPulse Solar Charger and start vehicles the first time, every time.



STEP 1: Calculate your Amps x Hours used per item = Amp Hours per item.



STEP 2: Add all of your item Amp Hours together to total the Amp Hours you need per day.



STEP 3: Select your solar panel. See the Amp Hours per day column on the chart on page 5.



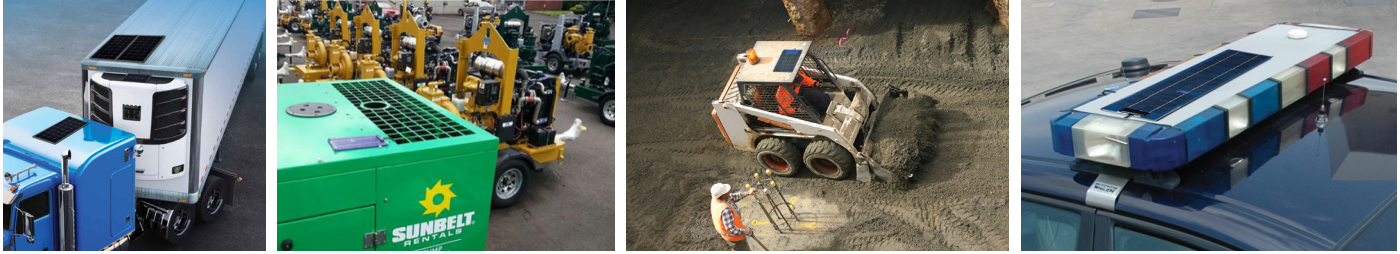
Charger	Install On Vehicle With:
SP-3	1 - 12V Battery
SP-7	2 - 12V Batteries
SP-12	3-4 - 12V Batteries

See Page 5 for the selection of 12-volt chargers.

If you have any questions, call our Solar Specialists (800) 580-7554.

SolarPulse Family

Solar Battery Maintainers and Chargers - 12V



SOLAR MAINTENANCE CHARGERS

12-VOLT SOLAR MAINTAINER CHARGERS

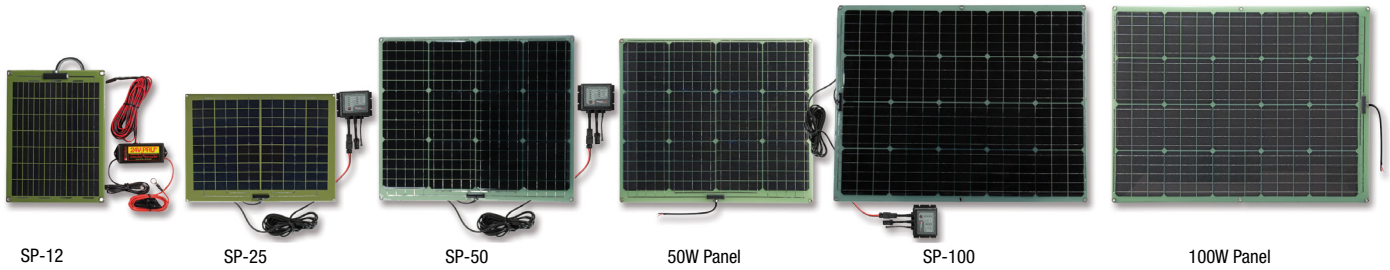


735X453 735X467 735X700 735X707 735X613 735X468 735X353 735X361 735X790 735X350 735X346

Name	Stock Number	Wattage	Voltage	Input Electrical	Output Current	Output Voltage, Max.	Amp Hours Per Day	Solar Panel Dimensions	Circuit Box Dimensions	Box-to-Lug Wire Length	Box-to-Panel Wire Length
SP-3 12V Solar Battery Charger Maintainer	735X453	3W	12V	Solar Powered	240mA	12V	1.4Ah	9.45" x 4.7" x 0.25"	3.4" x 2.25" x 1.5"	3 ft.	17 ft.
SP-7 12V Solar Battery Charger Maintainer	735X467	7W	12V	Solar Powered	450mA	12V	2.5Ah	10.25" x 8.85" x 0.25"	3.4" x 2.4" x 1.5"	3 ft.	17 ft.
SP-7-OB-D-T 12V Temp. Solar Charger Maintainer	735X700	7W	12V	Solar Powered	450mA	12V	2.5Ah	10.25" x 8.85" x 0.25"	3.4" x 2.4" x 1.5"	3 ft.	17 ft.
SP-7-OB-D-A 12V Temp. Solar Charger Maintainer	735X707	7W	12V	Solar Powered	450mA	12V	2.5Ah	10.25" x 8.85" x 0.25"	3.4" x 2.4" x 1.5"	3 ft.	17 ft.
ERV 7W 12V Solar Battery Charger Maintainer	735X613	7W	12V	Solar Powered	450mA	12V	2.5Ah	16" x 4.93" x 0.25"	3.25" x 2.25" x 1.5"	3 ft.	17 ft.
SP-12 12V Solar Battery Charger Maintainer	735X468	12W	12V	Solar Powered	750mA	12V	4.5Ah	12.41" x 9.85" x 0.2"	3.4" x 2.4" x 1.5"	3 ft.	17 ft.
SP-12-OB-D-T 12V Temp. Solar Charger Maintainer	735X353	12W	12V	Solar Powered	750mA	12V	4.5Ah	12.41" x 9.85" x 0.2"	3.4" x 2.4" x 1.5"	3 ft.	17 ft.
SP-12-OB-D-A 12V Temp. Solar Charger Maintainer	735X361	12W	12V	Solar Powered	750mA	12V	4.5Ah	12.41" x 9.85" x 0.2"	3.4" x 2.4" x 1.5"	3 ft.	17 ft.
SP-25 12V SolarPulse Solar Charger Maintainer	735X790	25W	12V	Solar Powered	1.5A	14.8V	9Ah	18.69" x 16.13" x 0.2"	3.62" x 4.53" x 1.52"	10 ft.	15 ft.
SP-50 12V Solar Pulse Solar Charger Maintainer	735X350	50W	12V	Solar Powered	2.87A	12V	9.72Ah	22" x 25.5" x 0.5"	3.62" x 4.53" x 1.52"	10 ft.	15 ft.
50W 12V PANEL	752X050	50W	12V	Solar	2.87A	12V	9.72Ah	22" x 25.5" x 0.5"	3.62" x 4.53" x 1.52"	10 ft.	15 ft.
SP-100 12V SolarPulse Solar Charger Maintainer	735X346	100W	12V	Solar Powered	4.545A	12V	27.24Ah	34" x 27" x 0.5"	3.62" x 4.53" x 1.52"	10 ft.	15 ft.
100W 12V PANEL	752X100	100W	12V	Solar	4.545A	12V	27.24Ah	34" x 27" x 0.5"	3.62" x 4.53" x 1.52"	10 ft.	15 ft.

SolarPulse Family

Solar Battery Maintainers and Chargers - 24V



24-VOLT SOLAR MAINTAINER CHARGERS

Name	Stock Number	Wattage	Voltage	Input Electrical	Output Current	Max Output Voltage	Amp Hours Per Day	Solar Panel Dimensions	Circuit Box Dimensions	Box-to-Lug Wire Length	Box-to-Panel Wire Length
SP-12 24V Solar Charger Maintainer	735X612	12W	24V	Solar Power	323mA	33V	2.4Ah	9.8" x 12.6" x 0.13"	4.9" x 1.8" x 1"	50 in.	15 ft.
SP-25 24V Solar Charger Maintainer	735X791	25W	24V	Solar Power	0.8A	29.6V	4.8Ah	17.9" x 14.3" x 0.2"	3.62" x 4.53" x 1.52"	10 ft.	15 ft.
SP-50 24V Solar Charger Maintainer	735X347	50W	24V	Solar Power	1.62A	24V	9.72Ah	22" x 25.5" x 0.5"	3.62" x 4.53" x 1.52"	10 ft.	15 ft.
50W Panel Only	740X595	50W	24V	Solar	1.62A	24V	9.72Ah	22" x 25.5" x 0.5"	3.62" x 4.53" x 1.52"	10 ft.	15 ft.
SP-100 24V Solar Charger Maintainer	735X348	100W	24V	Solar Power	3.03A	24V	18Ah	34" x 27" x 0.5"	3.62" x 4.53" x 1.52"	10 ft.	15 ft.
100W Panel Only	740X609	100W	24V	Solar	3.03A	24V	18Ah	34" x 27" x 0.5"	3.62" x 4.53" x 1.52"	10 ft.	15 ft.

Battery Maintainer Accessories

	Stock No./Part No.	Description
	100X805 XC-EXT 5'	5' Battery Lead Extension with Standard Quick-Disconnect Terminals
	100X825 XC-EXT 25'	25' Battery Lead Extension with Male and Female Connectors
	100X830 XC-LUGS	2' Battery Lead with "Leave-On" Eyelet Lugs and Standard Quick-Disconnect Connectors
	100X827 XC-CLIPS	2' Battery Lead with Clips and Standard Quick-Disconnect Connectors
	735X834 CUP SET #4	Set of 4 Replacement Suction Cups
	740X130 ATP-EXT 15'	15' Extension Lead with 2 ATP Connectors
	740X138 ATP Y-CABLE	Parallel Y-Cable Connector Lead

PT20 12/24V 20 Amp Solar Pulse Charge Controller

The PulseTech® PT20 solar charge controller features advanced pulse width modulated (PWM) technology, temperature compensation and advanced pre-programmed multi-staged charging algorithms. With 12V and 24V auto-switching, the unit automatically controls the solar charging power and protects AGM, gel, wet, lead acid and Li-ion batteries. The battery charge controller is used with solar panels up to 400W (12V) and 800W (24V). It provides protection from overvoltage, reverse polarity, and reverse current from battery to solar panel. Overcurrent protection is set at 22-amps. The patented pulsing technology increases the life of lead-acid batteries. The temperature sensor is used only with lead-acid/AGM batteries. The adapter allows bare wire connection to solar input. The rugged 'all-weather' PT20 comes with a temperature sensor (2.9m), fused battery harness (3m) and solar input adapter.



PT20 Specifications

Battery Voltage: 12/24V (Automatically Detected)
Max. Voltage on Battery Terminals: 40V
Rated Charge Current: 20 Amps
Min. Solar Input Voltage: 12V/24V Batt: 15V/30V
Max. Open Circuit Solar Panel Voltage: 50V (recommended <28V for 12V)
Dimensions: 3.62" x 4.53" x 1.52"

746X920 PT20 12/24V 20 Amp Solar Pulse Charge Controller

XC400 - 12V

Xtreme Charge® Battery Maintenance Charger

XC400 Xtreme Charge battery charger is a maintenance charger for all vehicles on land and in the water. It charges and maintains any 12-volt lead-acid battery, extending battery life with desulfating pulses. This state-of-the-art battery charger works automatically, selecting the proper battery type and charge rate. It is fuse-protected and spark-proof, eliminating risks of unsafe or improper charging.

The XC400 utilizes PulseTech's patented pulsing, and constantly works to minimize naturally occurring battery sulfation. By reducing the size and number of lead sulfate deposits on the battery plates, batteries charge deeper, maintain greater reserve capacity and last up to three times longer.

XC400 features a quick disconnect for easy switching between lugs and clamps. Status lights indicate power, pulsing and charging. Battery lights indicate battery state of charge at 25%, 50%, 75% or 100%. Five year limited warranty.

Includes: 12-Volt 4-Amp battery maintenance charger, one eyelet lead, one clip lead and manual.

200X010 XC400 12V Battery Maintenance Charger



Specifications

Input Voltage: 100 - 250 V ac	Power Cord Length: 6'
Maximum Charge Current: 4 amps	Main Battery Cable Length: 6'
Pulse Frequency: 40 - 50 kHz	Lug/Clamp Cable Length: 2'
Dimensions: 7.15" L x 3.62" W x 1.96" H	



Connect the Quadlink to any single stationed battery charger maintainer to enable maintenance charging up to for individual batteries or four separate vehicles with one charger.

Quadlink

4-Channel Battery Charger Multiplier

- Turn one maintenance charger into four
- Compatible with most 6V and 12V battery chargers on the market
- Maintain multi-battery 24V, 36V and 48V series connected 6V or 12V battery packs
- Safe from overheating or overcharging batteries
- Adds reverse polarity capability and short circuit protection

QuadLink turns a single maintenance charger into four maintenance chargers. Connect the QuadLink to any single-station battery charger maintainer and enable maintenance charging of up to four individual batteries or four separate vehicles with one charger.

Maintain multi-battery 24V, 36V or 48V series connected 6V or 12V battery packs with a single 12V maintenance charger. Safely and simply mount the QuadLink to the vehicle and connect each channel to each of the 6V or 12V series connected battery segments while in the vehicle. Because of the charger's capability, this can maintain vehicle batteries indefinitely during times of non-use or storage and all while still in the vehicle. Five-year limited warranty.

- 100X004** QuadLink 4-Channel Charger Multiplier
- 100X825** 25' Xtreme Charge Lead Extension
- 100X805** 5' Xtreme Charge Lead Extension

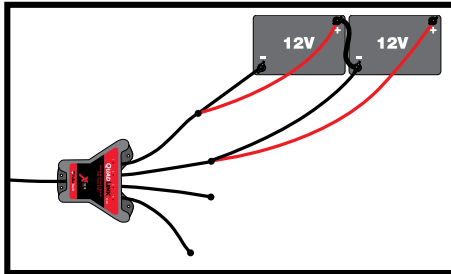
Specifications

Input Voltage: 4 V dc to 18 V dc	Main Battery Cable Length: 6'
Input Current: 8 amps Maximum	Lug/Clamp Cable Length: 2'
Output Current: 8 amps Maximum	<i>Note: Additional 5' and 25' cable extensions available separately</i>
Output Voltage, Bulk Charge: Dependent on Connected Battery Charger	Dimensions: 10.5" L x 9.5" W x 3.3" H
Power Cord Length: 6'	

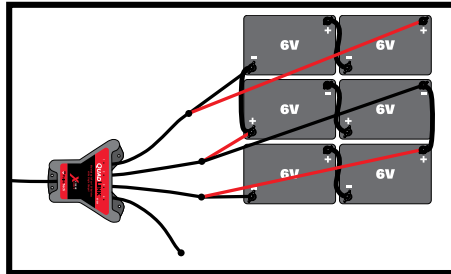


LEDs indicate the connection and charging status of the connected batteries.

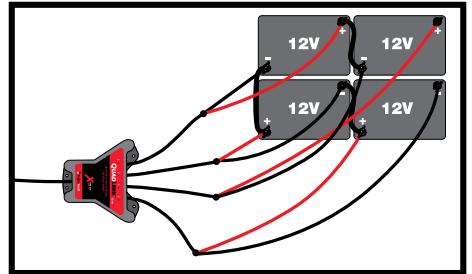
Battery in Series Connected Configurations



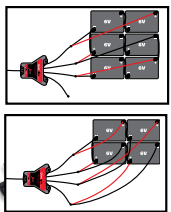
24-Volt Series



36-Volt Series

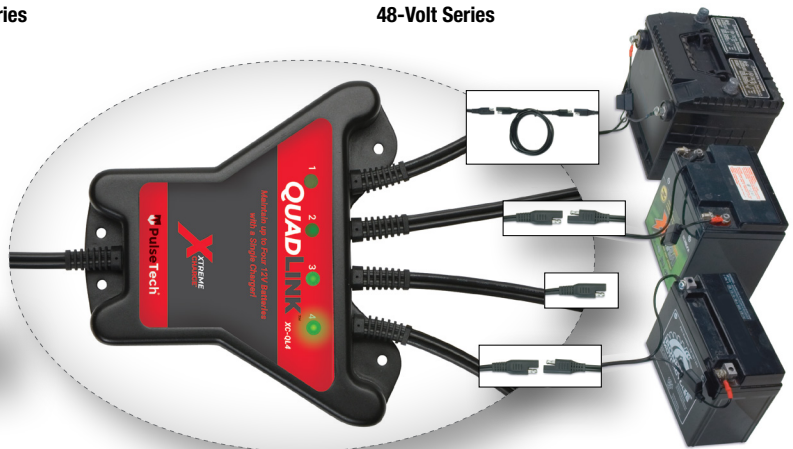


48-Volt Series







Maintain 24V, 36V or 48V battery equipped vehicles with a single 12V maintenance charger.

Save batteries, time and manpower!



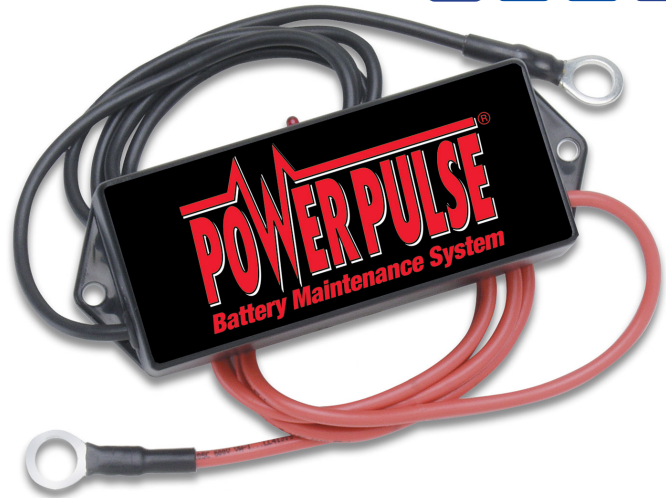
Battery Maintainer Accessories

	Part Number	Description		Part No./Price	Description
	100X805 XC-EXT 5'	5' Lead with Standard Quick-Disconnect Terminals		100X830 XC-LUGS	2' Lead with Eyelet Lugs and Quick-Disconnect Connectors
	100X825 XC-EXT 25'	25' Lead with Male and Female Connectors		100X827 XC-CLIPS	2' Lead with Clips and Quick-Disconnect Connectors

Maintenance Systems for 12/24/36/48 Volt Batteries

12V 24V 36V 48V

- Every daily driver should have this product installed
- Ensures peak battery performance
- Extends battery life up to three times
- Pulse Technology reduces and prevents sulfation buildup
- Maximizes performance of frequently charged batteries
- Provides greater charge acceptance to recharge faster
- Virtually indestructible design
- A good alternative solution to a Solar Pulse if your vehicle or equipment is not regularly out in the sun

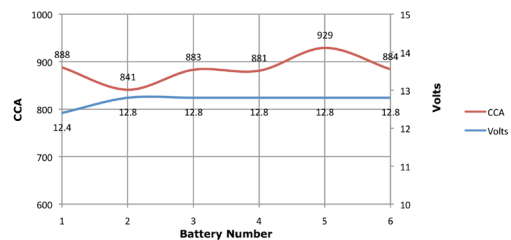


PowerPulse, a performance enhancing device, ensures maximum battery performance in frequently used vehicles or equipment. It does this by generating an intermittent, high frequency pulse waveform that reduces existing sulfate deposits and keeps them from building up again. It is not a charger, but is used to supplement an existing charging system.

PowerPulse works 24 hours a day without an electrical outlet. Accordingly, it should only be used on vehicles and equipment that are regularly used and frequently charged.

The PowerPulse Maintenance System was selected as a Top 50 Product by Automotive Engineering magazine. It is available in 12-, 24-, 36- and 48-volt models. PowerPulse can be used on all lead-acid batteries including VRLA, AGM, gel and flooded cell batteries. It works with a single battery, batteries in parallel and batteries in series. For example the PP-48-L can be used with a single 48V battery, a 48V battery bank connected in parallel, and with four 12V or eight 6V batteries connected in series. Five-year limited warranty.

CCA and Voltage of Six Batteries After PowerPulse is Attached for One Year

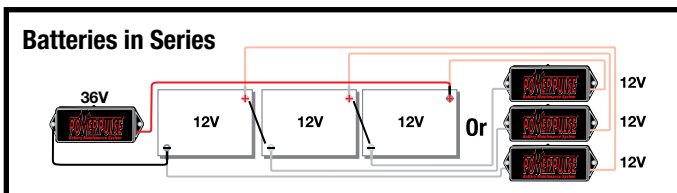


- 735X012 PP-12-L PowerPulse 12V Maintenance System
- 735X024 PP-24-L PowerPulse 24V Maintenance System
- 735X036 PP-36-L PowerPulse 36V Maintenance System
- 735X048 PP-48-L PowerPulse 48V Maintenance System

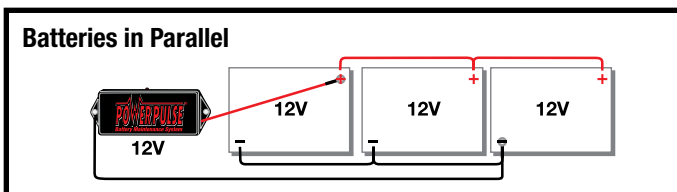


Specifications (All models)

Dimensions: 4" x 1.75" x 1" Wire Length: 3'
Shipping Weight: 0.5 lb.



One PP-36-L can be used to maintain three 12-volt batteries in series or a PP-12-L can be connected to each 12-volt battery.



One PP-12-L can be used to maintain (up to) three 12V batteries in parallel or a PP-12-L can be connected to each 12V battery.



777P-PT 6V/12V

Digital Battery Analyzer with Printer

The 777P-PT safely tests both 6-volt and 12-volt lead-acid batteries (VRLA, AGM, gel and flooded cell) as well as 12-volt and 24-volt charging systems. Tests include cranking voltage, idle output voltage, diode ripple test and output under load.

Unit features a printer with unique test codes and bar code results. It has 100-test memory, backlit display, ten language and multiple standard options. Comes in a sturdy case. One year warranty.

741X777 777P-PT Digital Battery Analyzer

Specifications

Operation Range: 40-2000 CCA (SAE)
Voltmeter Range: 1.5V to 30V
Dimensions: 9.9" x 5.1" x 2.5"
Weight: 2.15 lbs.



6V 12V



6V 12V

390PT

6V and 12V Battery Analyzer

The 390PT accurately tests 6-volt and 12-volt lead-acid batteries (VRLA, AGM, gel and flooded cell) in or out of the vehicle as well as 12-volt and 24-volt charging systems. Unit displays battery voltage and cranking amps in seconds, and tests discharged batteries down to 1.5 volts.

It features a shock resistant boot, guide, six language options and multiple standards. One year warranty.

741X390 390PT 6V/12V Battery Analyzer

Specifications

Operation Range: 40 to 2000 CCA
Voltmeter Range: 1.5V to 30V
Dimensions: 7.8" x 4.5" x 2.1"
Weight: 1.4 lbs.

Battery Analyzer Accessories

	Part No./ Price	Description		Part No./ Price	Description
	741X060 <i>Stud to Post</i>	Stub to Top Post Adapters		741X061 <i>Side Post</i>	Side Terminal to Top Post Adapters

XC-822-TEST

Battery Tester

The pocket-sized Xtreme Charge XC-822-TEST quick battery and alternator voltage tester instantly indicates a 12-volt lead-acid battery's state of charge at 100%, 75%, 50% or 25%. It gives a quick GOOD or BAD alternator test result.

Users can insert the test probes into the lug connector lead for a remote battery test or slide the negative probe out of its position for use directly on battery posts.

12V



Specifications

Dimensions: 4.75" x 1" x 0.6"
Weight: 1.5 oz.

100X822 XC-822-TEST Battery Tester

Battery Tester Selection Guide

	777P-PT	390PT	XC-822-TEST
Test 6V Batteries	✓	✓	
Test 12V Batteries	✓	✓	✓
Test 12V Charging Systems	✓	✓	✓
Test 24V Charging Systems	✓	✓	
Test Memory	✓		
Built-in Printer	✓		
Molded Carrying Case	✓		

Battery Recovery Technology

12V & 6A Suitcase Recovery Chargers

- Charging stations operate independently of each other
- LED indicators show the condition of each battery
- Easy to use with single switch operation
- Work anywhere in the world with detachable IEC connector

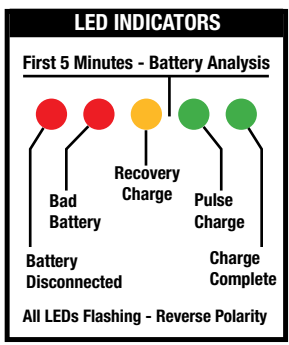
The PulseTech Suitcase Recovery Charger Family of products is designed to be highly durable, maneuverable, and efficient for easy automatic use in any shop environment.

We find that they will recover the vast majority (up to 70%) of batteries previously thought to be unusable. These chargers are designed to be used on 12-volt VRLA, AGM, Gel, EFB or standard flooded cell lead-acid batteries. Our patented Pulse Technology prevents and removes sulfate deposits on battery plates, increasing a battery's ability to accept, retain and release energy.

These chargers come in 3 popular sizes; 2, 6 and 12 channel versions for small to large volume use and all are 12-volt, 6-amp per channel that use universal electrical input that allows for operation anywhere in the world with a detachable IEC connector. Each of the charging channels is microprocessor controlled and operates in isolation, profiles the condition of each individual battery and automatically cycles through a recovery charge process that applies the correct charge combined with our patented high frequency, pulse waveform to charge and recover each battery.

Recovery chargers are safe and easy to use. These chargers can be used with battery in-vehicle without worry of damaging delicate electronics, are reverse polarity protected, spark free, and will not overcharge.

- 746X814 SC-2 2-Station Charger**
- 746X816 SC-6 6-Station Charger**
- 746X810 SC-12 12-Station Charger**
- 740X359 SC-EXT 25' Extension Lead**



Specifications - SC-2 2-Station Charger

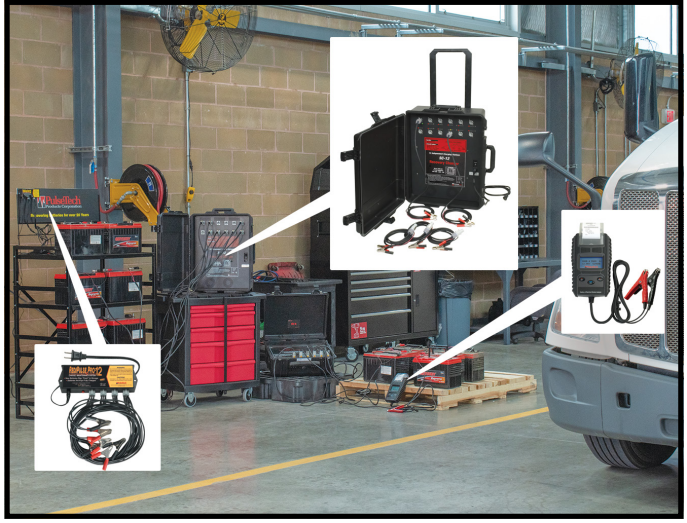
Input Voltage: 110-240 VAC	Weight: 10 lbs.
Output Current: 6 Amps/channel, 12 Amps Max	Enclosure: Black HPX Plastic
Dimensions: 14.5" x 11.75" x 6.25"	Battery Cable Length: 96" - 14 AWG from box to battery clamps

Specifications - SC-6 6-Station Charger

Input Voltage: 110-240 VAC	Weight: 35 lbs.
Output Current: 6 Amps/channel, 36 Amps Max	Enclosure: Black HPX Plastic
Dimensions: 20" x 17.2" x 9.1"	Battery Cable Length: 96" - 14 AWG from box to battery clamps

Specifications - SC-12 12-Station Charger

Input Voltage: 110-240 VAC	Weight: 63 lbs.
Output Current: 6 Amps/channel, 72 Amps Max	Enclosure: Black HPX Plastic
Dimensions: 24.6" x 19.7" x 8.6"	Battery Cable Length: 96" - 14 AWG from box to battery clamps



XCR

Xtreme 16A 12V Battery Recovery Charger and Desulfator

12V

- More powerful 16 amps for charging, conditioning and recovery of larger batteries.
- Fully automatic use on all lead acid battery types
- Safe - microprocessor controlled for safe use when charging batteries "in vehicle"
- Simple – connect, plug and play with one switch – The XCR does the rest automatically!

The XCR Xtreme Recovery Charger is the perfect single station shop charger for use on any type of 12-volt lead-acid battery (VRLA, AGM, Gel and flooded cell). It is ideally suited for faster charging of larger 12-volt batteries including group 31, 4-D and 8-D. The XCR is housed in a self-enclosed, water-resistant heavy-duty case which is great for easy storage and portability, allowing operation on standalone batteries in the shop and on batteries still installed in a vehicle or equipment. The XCR applies PulseTech's high frequency, patented Pulse Technology waveform which reduces commonly occurring sulfation buildup over time on battery plates with normal use.

This process improves battery performance and extends battery life. LEDs allow users to easily understand what is happening to the battery during the recovery and charging process. The flexible, cables store in the case and disconnect easily. The XCR features over temperature protection and output current limit protection, making monitoring during the charging process unnecessary. One-year limited warranty.



100X500 XCR-20 Xtreme Recovery Charger and Desulfator

Specifications

Input Voltage: 110-240 VAC
 Min. Voltage for Startup: 4 Volts
 Output Current: 16 Adc
 Output Voltage, Bulk Charge: 14.9 Volts
 Dimensions: 14.2" x 11.4" x 6.5"
 Enclosure: Black HPX Plastic
 Battery Cable Length: 6'

LED INDICATORS

Status	Battery
● On	● 100%
● Pulsing	● 75%
● Pulsing	● 50%
● Pulsing	● 25%
● Charging	● Test
	● No Connection
	● Bad Battery



PRO-HD-799

12/24-Volt Charger and Battery Recovery Unit

The PRO-HD-799 recovers any 12-volt or 24-volt lead-acid battery including VRLA, AGM, gel or flooded cell automatically sensing battery voltage and adjusting as needed. It operates anywhere in the world, auto sensing voltage between 110-240V and 50-60 Hz. There's no longer a need to buy new batteries when the batteries currently in use can be recovered, saving both time and money. Once recovered, batteries are maintained and desulfated with our patented Pulse Technology to remove and prevent the buildup of large, damaging lead sulfate deposits on the battery plates that negatively affect the battery's ability to accept, store and release energy.

This recovery charger rolls to wherever it is needed. Charge batteries while they are still in the vehicle with the heavy duty alligator clips. This unit is completely safe with no danger of overheating or overcharging regardless of how long

batteries remain connected. One switch operation makes the PRO-HD-799 easy to use and minimizes training. Five LEDs show the status of the charger and battery being charged and recovered, making it easy to understand what is happening throughout the charge and recovery process. One year limited warranty.

746X799 PRO-HD-799 Recovery Unit

LED INDICATORS

- Battery Disconnected
- Bad Battery
- Recovery Charge
- Pulse Charge
- Charge Complete

RediPulse Pro-12

12-Station Battery Maintenance System

- Maintains up to 12 batteries awaiting installation in factory-fresh condition
- Works with any combination of 12V battery types (AGM, VRLA, gel and flooded cell) and brands
- Pulse Technology reduces and prevents sulfation buildup
- Conditions batteries for peak performance

The 12-Station battery maintenance system preserves as many as twelve new and restored 12-volt batteries at peak charge levels.

The PRO-12-RP supplies a continuous cycle of low amp charging that rotates through the twelve channels, offsetting the normal discharge rate. At the same time, our high frequency, patented Pulse Technology waveform reduces the size and number of lead sulfate deposits. The result is stored batteries that stay 'factory fresh' while waiting to be sold or installed.

Batteries can be connected safely from a single ac outlet with no sparking between the leads. Each charging station operates in isolation from the others, allowing any combination of battery types and brands to be charged. LEDs located on the top of the unit show the condition of each battery. Two-year limited warranty.

746X915 PRO-12-RP 12-Station RediPulse

735X243 PRO-12-CLIPS 3-Cable Lead Replacement Set



12V

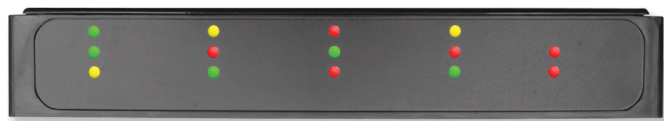
Specifications	
Input Voltage: 110-240 V ac, 50-60 Hz	Reverse Polarity Protected: Yes
No. of Outputs: 12	Box to Clamps Wire Length: 72"
Max Charge DC Voltage: 14.7V	Dimensions: 7.25" L x 2.35" W x 1" H
Max Charging DC Current: 750 mA	Weight: 2 lbs.



735X243 PRO-12-CLIPS 3-Cable Lead Replacement Set

LED Indicators

Located on the top of the unit, the LEDs show the condition of each battery.



RED - Battery is low **YELLOW** - Battery is marginal **GREEN** - Battery is ready for issue

Audible Alarm indicates improper connection

Note: LEDs cycle to show the status of each battery at a time. All LEDs will not be on at the same time, as shown.



715X100 B-RACK-1 Battery Rack

Battery Management Program (BMP)

For Batteries That Are Recovered, Not Just Charged

- Extend battery life up to three times
- Recover 70% of spent batteries
- Extend alternator and starter life
- Support sustainability goals
- Reduce the number of batteries needed to be purchased
- Reduce vehicle downtime
- Reduce hazardous waste generation
- Reduce warranty problems

Battery Management Program Kits allow the operator to set up a battery testing, recovery and recharge operation in their shop. This allows an organization to extend the life of their batteries while reducing overall costs, jump-starts and vehicle downtime.

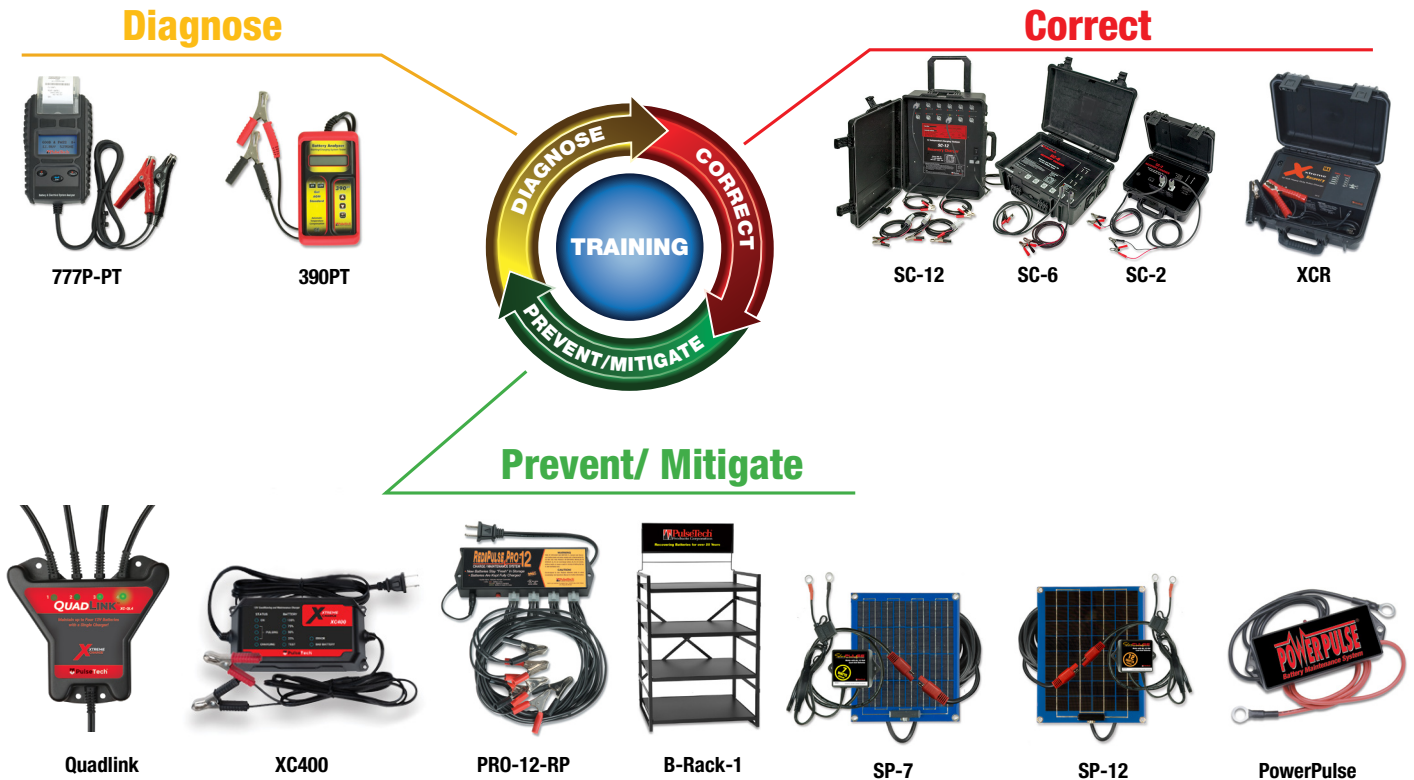
The choice of kit largely depends on the size of your operation. Kits can stand alone or be used to augment or update existing equipment in your battery shop.



Use the BMP-1 Kit to charge, recover and maintain

Which BMP Kit is Right for You?

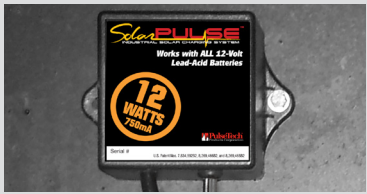
Kit	Part No.	Description	Number of Batteries Discarded Each Month	Recovery Charger	Battery Maintainer	Battery Tester
BMP-1	746X201	Battery Management Program Kit 1	25+	SC-12	PRO-12-RP	777P-PT
BMP-2	746X202	Battery Management Program Kit 2	10-25	SC-6	PRO-12-RP	390PT
BMP-3	746X203	Battery Management Program Kit 3	1-10	SC-2	PRO-12-RP	390PT



Easy to Install Solar Pulse Solar Panels SP-3, SP-7, SP-12, SP-25 and 12V ERV Unit

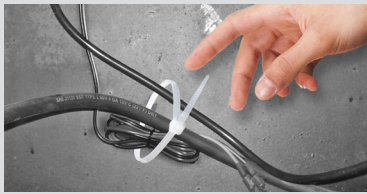
Solar Installation Instructions

1



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.

2




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.

3




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.

4



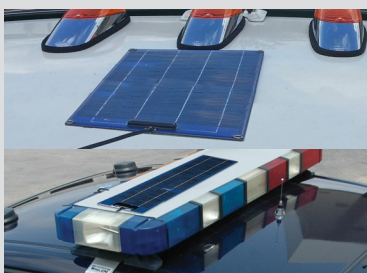
Connect the positive (+) wire to the positive (+) battery terminal. After removing the nut from the bolt securing the battery clamp to the positive terminal, slip the round metal lug at the end of the positive red SolarPulse wire onto the bolt until it sits next to the clamp.

5



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.

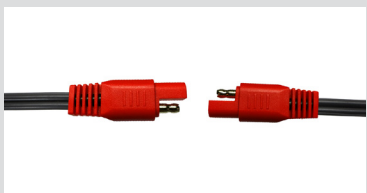
6



Mount the solar panel using any of the following methods: Four round-head screws*, industrial adhesive, heavy-duty dual lock or 3M VHB double-sided tape (not included) (not included). It should be mounted where it will have direct sunlight.


**Screws cannot be used with the 12V ERV Unit*

7



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.

ONLY FOR 12V ERV MODEL INSTALLATIONS



If you wish to remove excess wiring between the solar panel and circuit box, they can be cut and spliced together. If you wish to extend the length of the solar panel wires, they can be spliced with up to 10-feet of the same gauge wire as the model you are installing. NOTE: Only the wires between the solar panel and the circuit box can be spliced. DO NOT splice the wires between the circuit box and battery.

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.

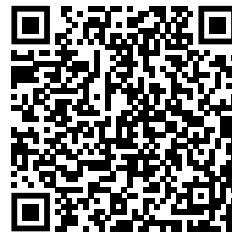
WARNING: Do not hold the positive and negative lugs at the same time while the unit is active (receiving sunlight). It may cause a slight electric shock.



PulseTech™

1100 S. Kimball Ave.
Southlake, TX 76092-9009

Improve Battery Performance
and Extend Battery Life
up to Three Times with
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