

SP-25 SolarPulse 12V Solar Charger Maintainer, 25-Watt

Part #: 735X790

NSN: Pending

Description:

Maximum battery performance on vehicles kept outdoors. The SP-25 12-Volt Solar Charger Maintainer provides a full 25-Watts of power in a compact, durable 18.69" L x 16.13" W x 0.2" H solar panel. The SP-25 re-stores, charges and desulfates individual batteries as well as two to four 12-Volt lead-acid batteries connected in parallel, making it ideal for heavy duty applications. It is engineered to replace the power loss from electrical accessories that occurs when the ignition is switched off. Not just seasonal or infrequently used vehicles and equipment benefit from using SolarPulse systems, but any vehicle that has short run times between stops, high loads at an idle or unpredictable use profiles will benefit.

SolarPulse'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 get the power you need in a sturdier, smaller-sized solar panel. Since the solar cells are placed directly on a low profile aluminum panel instead of a thicker, bulkier metal frame, you can flush mount the solar panel so it has less chance of being accidentally damaged.

The 25-Watt model utilizes PulseTech's unrivaled solar charging system combined with our patented optimized high frequency pulsing circuit to ensure unused batteries will start when needed, eliminating jump starts. PulseTech's patented Pulse Technology reverses the naturally occurring process of battery sulfation – the main cause of battery failure. Removing sulfate crystals from the battery plate allows batteries to accept, store and release maximum power all the time extending battery life up to three times.

The PulseTech® PT20 Solar Charge Controller features the 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 and Lithium batteries. The battery charge controller is used with solar panels up to 400W (12V) and 800W (24V). It provides protection batteries 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 by removing and hindering the natural sulfation. 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.

The LED operation and indicator gives the current status of the connected solar array, the current charging state of the controller, the current status of the on-board PulseTech Pulsing Technology and will detect 12V and 24V batteries.

- Works on all 12-Volt lead-acid batteries including VRLA, AGM, gel and flooded cell
- Restores, charges and desulfates any 12-Volt battery stored outside
- Restores and maintains normal loss of battery power on seldom-used vehicles
- Commercial-grade crystalline cells are 30% smaller per watt and twice as efficient
- Patented Pulse Technology extends battery life up to 3 times
- Reverse polarity protected
- Maintains batteries indefinitely without danger of overcharging or overheating



Specifications:

Input Electrical	
Solar Powered	
Output Electrical	
Output Current	1.5 Amps
Output Voltage Maximum	14.8 Volts
Mechanical/Physical Characteristics	
Circuit Box Dimensions	3.62" x 4.53" x 1.52"
Solar Panel Dimensions	18.69" L x 16.13" W x 0.2" H
Shipping Weight	6 pounds
Box-to-Lug Wire Length	9.84'
Box-to-Panel Wire Length	15'
PT20 Wire/Descriptions	
Solar Panel to Controller Input Wire	5.2m or 15'
12 AWG Battery to Controller Power Feed Wire with 25A Fuse	3m or 9'10"
12 AWG ATP Plug with Butt Splice Wire	15.2cm or 6"
Battery Temperature Sensor Wire	2.9m or 9.5'
Environmental	
Operating Temperature	-31°F to 149°F (-35°C to 65°C)
Storage Temperature	0°F to 150°F (-18°C to 66°C)
Protection Category	IP66

PT20 Indicators	
Solar Status	Green light: solar is present and >15V
	Off: solar is <15V
Battery Status	Solid Green: float/fully charged
	Fast Blinking Green (6x per sec.): absorption
	Solid Orange: bulk charging
	Solid Red: soft charging
	Blinking Red: battery error
	Off: no battery connected
Pulse	Blinking Red: PulseTech Pulsing Technology is working
	Off: Pulsing is off
12 Volt	Solid Green: system voltage is 12V
	Off: system voltage is 24V
24 Volt	Solid Green: system voltage is 24V
	Off: system voltage is 12V
Battery Type	Solid Green light: battery type listed is the active profile
	Off: another battery type is set as the active profile