

## SP-25 24V PT20MK, 24V Battery Solar Pulse Charger Desulfator, 25W

**Part #:** 735X789

**NSN:** Pending

### Description:

Rated at 0.833 Amps, this 25-Watt Pulse Solar Charger charges and desulfates all 24-Volt battery systems (including VRLA, AGM, gel and flooded cell) on vehicles or equipment stored outside. No AC power is needed as 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.

This unit utilizes our unrivaled solar charging system combined with our patented high frequency pulsing circuit, Pulse Technology, to ensure batteries start when needed no matter how long vehicles or equipment sit unused outside. Pulse Technology reverses the naturally occurring process of battery sulfation - the main cause of battery failure. This allows batteries to accept, store and release maximum power all the time extending battery life.

Safe, reliable and weatherproof, this unit prevents dead batteries by keeping them in like-new condition indefinitely. A LED light indicates the circuit is energized and the unit is working. A special external heavy duty plug connects directly to vehicles, generators and support equipment. Mounting kit included.

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 battery 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 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.



### Specifications:

Input Electrical	
Solar Powered	
Output Electrical	
Output Current	0.8 Amps
Output Voltage Maximum	29.6 Volts
Mechanical/Physical Characteristics	
Circuit Box Dimensions	3.62" L x 4.53" W x 1.52" H
Solar Panel Dimensions	17.88" L x 14.34" W x 0.2" H
Shipping Weight	6 pounds
Box-to-Lug Wire Length	10'
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	0°F to 130°F (-18°C to 54°C)
Storage Temperature	0°F to 150°F (-18°C to 66°C)

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