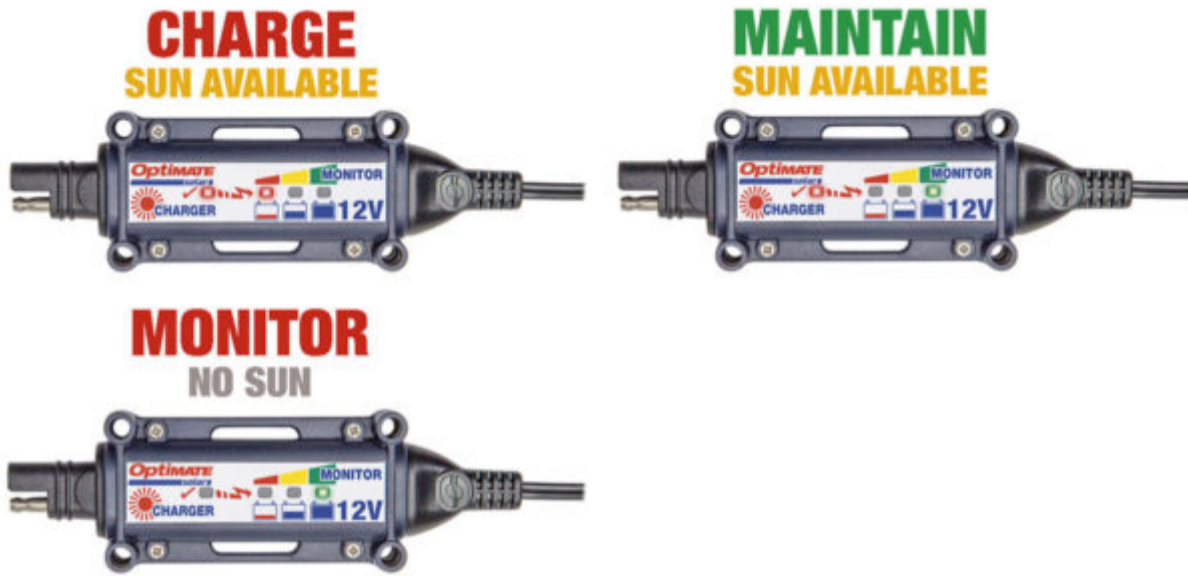


# Discover our all new OptiMate Solar

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One of the primary problems encountered with most solar chargers has always been that once the sun goes down, you have no idea what the battery status is and no answer to the all-important question...“**is that battery charged or not?**”

That has changed with the new OptiMate Solar line that features a smart charger-monitor which provides **battery status information around the clock**, when it is charging the battery during the day and when the battery is at rest overnight. The OptiMate Solar TM-522 **smart charger-controller** is ‘the ‘brain’ in the new line of OptiMate Solar modular charge kits. The 4-LED panel on the TM-522 smart charger-controller provides comprehensive information on charge progress and battery status.



When the panel receives sun, the SOLAR CHARGE light blinks, confirming solar power is being delivered, and one of the three battery status lights indicates charge progress. When night falls, or if the smart charger-monitor senses no solar power is being delivered, it **changes into a battery monitor**, with one of the three charge status lights now indicating battery status every three seconds.

The 10W TM-522-1 (12V 0.8A max.) and 20W TM-522-2 kits (12V 1.6A max.) are said to be **ideal for all powersports vehicles**. The **weatherproof** solar panel includes corner mounts for easy wall or roof mounting. Each kit includes a high intensity poly crystalline panel with a 2m/80” power cable, an OptiMate O-01 weatherproof battery lead, an OptiMate O-04 set of battery clips and the outdoor rated OptiMate smart charger-controller (TM-522) with a 1m/40” charge cable.

If more power is needed, there are also the higher power 40W (TM523-4), 60W (TM523-6) and 80W (TM523-8) kits that include the higher power rated TM523 charger-monitor.

OptiMate’s new solar charge kits are **fully automatic**. Once you have mounted the panel in the suitable place to receive maximum sunlight, just hook up the charger-monitor to the battery and walk away. “**No more battery problems,**” says TecMate, “**the vehicle’s battery is now being maintained ‘for free!’**”



## 6 STEPS

### OptiMATE Solar 12V charge & monitor system, the SMART 24-7 battery care solution powered by the sun.

The smart OptiMate Solar system includes a 40 Watt weatherproof solar panel and a smart OptiMate Solar combination charger-monitor controller, that charges & maintains a 12V battery during the day and monitors and displays the battery state of charge at night.

The solar panel’s wide spectrum poly-crystalline technology generates power even in low light, that the OptiMate controller converts into high current pulses more effective for charging and maintenance of a 12V battery. At night the smart controller turns into a battery monitor, providing battery information every 3 seconds on the easy to read 3 LED panel.

**Charger by day, monitor by night, with battery information available 24-7!**

#### CHARGE

Saves flat batteries from as low as 1V with its unique pulse action.

Fastest charge is delivered as ‘smart charge’ control selects pulse or continuous charge according to sunlight strength. Intelligent maintenance continues the next day if battery retained charge overnight, otherwise the program reverts to OPTIMIZE step.

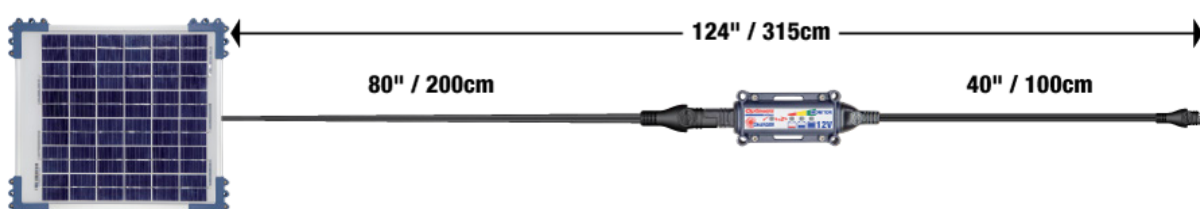
#### MONITOR

Battery condition is displayed every 3 seconds. Ready indication for STD and hi-performance AGM batteries. Draws less than 0.5mA during monitor mode.

Automatically switches to CHARGE when solar power is sufficient.

#### MOUNTING

The OptiMate charger-monitor controller is separate to the solar panel and can be placed close to the vehicle or battery so that charge and maintenance progress can be easily followed. The solar panel must be mounted and angled to receive direct sunlight. The reach / distance between battery and panel is 315cm / 124”. To extend, use [OptiMate Cable Extenders O-03, O-13 or O-23](#) and insert between the solar panel and the OptiMate charge-monitor controller.



Outer dimension, including corner mount brackets : **Width** = 42.9 cm / 16 7/8 " **Height** = 68.6 cm / 27 " **Depth** = 3.3 cm / 1 1/4 "

View [other battery chargers & jump starters](#) made by [OptiMate on our website.](#)