

# OptiMATE™ 3+

**Complete  
12V battery care  
at home**



**Saves neglected batteries other chargers can't**

**Optimizes battery power and life**

**24/7 automatic storage control**

**Effective battery test and maintenance cycle**

**Proven reliability & ease of use**

**OptiMate™ 3+**, the all-in-one tool for 12V battery care at home. Diagnoses, recovers, charges, tests and maintains, automatically. **OptiMate 3+** retains all the fully automatic, 100% safe, easy-to-use characteristics of the 1.5 million OptiMates produced since 1995, but now with a stylish new splashproof enclosure with wall mounts and easy-to-read LED information panel.

If you forgot to hook up your battery during the off season, **OptiMate 3+** will recover it from deep discharge and fully recharge it.

Then it checks that the charge is good and tests how well it is retained by the battery. The OptiMate 3+ will then maintain your battery at full charge for months at a time and prolong its life by up to 400%, reducing waste for a greener environment.

No wonder 10 major constructors recommend **OptiMate**.

**OptiMate 3+. Battery performance guaranteed!**



# OptiMATE™


**Battery Performance  
Guaranteed!**

# OptiMATE™ 3+

## How it works

- 1. Safety check:** OptiMate 3+ will only activate if connected to a battery that has at least 2V of charge.
- 2. Desulfation and recovery:** if the battery's resistance is abnormally high due to sulfation, a voltage of up to 20V is automatically applied to overcome this to recover very flat or neglected batteries (disconnected from the vehicle) until they are able to accept the normal charge program.
- 3. Bulk charge:** a constant current of 0.6A brings the battery close to full charge.
- 4. Charge verification:** as soon as the rising resistance causes the charge voltage to reach 14.3V, the voltage is limited at 13.6V for 30 minutes while the circuit monitors the actual voltage and the current absorbed by the battery. If within 30 minutes the achieved charge is less than optimal, the program goes back to bulk charge and the process repeats.
- 5. Charge retention test:** when the charger confirms that an optimal charge has been achieved, the first check for battery (and connected system) power leakage begins. Depending on the voltage retained during 30 minutes, an "OK" (green LED) or "not OK" (red LED) test result is displayed. These 30 minute test periods repeat hourly until the OptiMate 3+ is disconnected, so that the battery status indication is continually updated.
- 6. Charge maintenance:** during alternate 30 minute periods, at a float limit of 13.6V the battery is offered charge current (up to the maximum) it needs to sustain it against any small connected loads or power leakage and against natural self-discharge.  
OptiMate 3+ can stay connected to the battery indefinitely and the battery will be safe & 100% charged.  
(Standard filler cap batteries need their liquid level checked regularly during long term connection.)

## Technical Specifications

Use on the following 12V lead-acid batteries: AGM/MF, Standard, & GEL batteries	Size: 2Ah to 45Ah rated capacity
Program control	5 stages, fully automatic
Reverse drain current	less than 0.5mA
Output current (bulk charge)	0.6A
Automatic desulfation	YES
Charge time limit	safe to leave connected for months at a time
Maintain / test cycles	30 min/30 min (alternating hourly)
Charge retention test	monitors during 30min no charge intervals
Size	7 ½ x 3 x 2 ¼ inches (190 x 75 x 56 mm)
Weight (packaging)	1.7lbs (2.4lbs) – 0.8kg (1.1kg)
Wall mounting	easy direct wall mounting
Input cable length	6ft (2m)
Output cable length	6ft (2m)
Accessories Included	SAE-71 weatherproof fused ringlet set SAE-74 clamps set for bench charging 
Operation temperature range	From -20°C / -4F to 40°C/104F
Warranty	3 years