

# OptiMATE<sup>3</sup>

Complete 12V  
battery care  
at home

Optimizes battery power and life

Saves neglected batteries

Safe long-term maintenance cycle

Tests battery every hour

Recommended by 10 power sport manufacturers



Available in 2 banks and 4 banks



**OptiMATE<sup>TM</sup> 3**, the all-in-one tool for 12V battery care at home. Diagnoses, recovers, charges, tests and optimally maintains, automatically. **OptiMATE 3** retains all the fully automatic, 100% safe, easy-to-use characteristics, of the 2 million OptiMates produced since 1995, but is now microprocessor-controlled, lighter and more efficient than ever, and it comes with global input (100-240V). And it's 33% more powerful than its predecessor. Forgot your battery throughout the winter? **OptiMATE 3** will recover it from deep discharge and optimally recharge it. Then it will check that the charge delivered is the best possible before then checking how well the battery can retain the charge. And tell you its status, at a glance. Of course, it will then maintain your battery at full charge safely for months at a time. And prolong its life by up to 400%. Reducing waste, for a better environment. No wonder 10 major constructors recommend **OptiMATE. OptiMATE 3. Battery performance guaranteed!**



# OptiMATE<sup>TM</sup>

**Battery Performance  
Guaranteed!**

# OptiMATE 3

## How it works

- 1. Safety check:** OptiMate 3 must be connected to a battery (retaining minimum 2V) to activate its output.
- 2. Desulfation and recovery:** if due to sulfation the battery's resistance is abnormally high, a voltage of up to 20V is automatically applied to overcome this so as to recover very flat or neglected batteries until they are able to accept the normal charge program.
- 3. Bulk charge:** a constant current of 0.8A efficiently 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 automatic circuit judges that the achieved charge is less than optimal, the program reverts to bulk charge and the process repeats.
- 5. Charge retention test:** when the monitored parameters confirm that an optimal charge has been achieved, the first check for battery (and connected system) power leakage commences. 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, the battery will stay cool and safe. And optimally charged. Of course.

## Technical Specifications

Recommended for AGM/MF, Standard, GEL and spiral cell batteries	from 2.5Ah to 50Ah rated capacity
Program control	5 stages, fully automatic
Input voltage	100-240V~50-60Hz, global input
Input current max.	0.23A @ 100V – 0.15A @ 240V
Typical annual energy cost	< \$1 (continuous maintenance)
Reverse drain current	less than 1mA
Output current (bulk charge)	0.8A
Automatic desulfation	yes
Charge time limit	48 hours
Maintain / test cycles	30 min/30 min (alternating hourly)
Charge retention test	monitors during 30min., no charge intervals
Size	6 1/2 x 2 1/2 x 1 3/4 inches (167 x 65 x 46mm)
Weight (packaging)	1 1/3 lb (0.6 kg)
Enclosure classification	IP54
Mounting easy	direct wall mounting
Input cable length	6ft / 2m
Output cable length	6ft / 2m
Included Accessories	O-1 weatherproof permanent lead O-4 alligator/battery clips
Operation temperature range	-4 °F to 104 °F / -20°C / +40°C
Warranty	3 years

