# OptiMATE

NA-EN
January 2017

## The Battery Saving Charger

MORE BATTERY POWER

LONGER BATTERY LIFE

SAVE YOUR 'DEAD' BATTERY

GENERAL MAINTAINERS

POWER SPORT

AUTO & MARINE

LITHIUM

DC TO DC

SOLAR

optimate1.com

**Download the electronic version at www.tecmate.com/cat**
**Available in EN, FR, ES, DE, IT, NL and more.**

**PRICES : Indicated in US$ and CAD (Canadian Dollar).**
**Exchange rate approximately US$ 0.75 = CAD 1.00**

# 4 REASONS WHY OPTIMATE IS BETTER THAN OTHER BATTERY CHARGERS

## ALL OPTIMATE BATTERY CHARGERS

**1** **TEST** battery condition at connection, decide optimal charge method, then charge. Models from OptiMate 3 also test after charging.

**2** **UNIQUE MAINTENANCE PROGRAM**
24/7 safe maintenance. Checks charge level hourly, delivers exact charge to keep battery at 100% and support 'always on' vehicle circuitry. Soft pulse prevents sulphation build-up.

**3** **EQUALIZES BATTERY CELLS** with a unique pulsing method, brings each cell to full charge for guaranteed 100% battery performance!

## ONLY OPTIMATE BATTERY SAVING CHARGER MODELS

(OptiMate 3, 4, 5, 6, 7 and Lithium)

**4** **SAVE 'DEAD' BATTERIES** other chargers can't from as low as 1/2 a Volt.

Lead-acid chargers (3, 4, 5, 6, 7) : *Proven controlled desulphation program for off vehicle battery saving and safe low volt recovery program for on vehicle battery reconditioning.*

Lithium chargers (4s 0.8A, 4s 5A) : *Proven Low voltage save & test program re-balances cells and check for damage.*

OptiMATE
The Battery Saving Charger

# OptiMATE 1 STANDARD

12V 0.9A
3 STEPS

## *Cost-effective 12V battery maintenance*

**TM-85**
**US$ 37.90**
**CAD 49.90**

Smart voltage & current control

**NOTICE:**
The Standard (STD) version cannot be sold in the US states of California or Oregon as it does not meet the state efficiency requirements.

| 1 | 2 | 3 |
|---|---|---|
| Low Volt Start (8V) | Controlled CHARGE | OptiMate maintenance |

| | |
|---|---|
| CHARGING | 0.9A |
| USE | INDOOR t°min: -4°F / -20°C |
| SAVE | Low Volt start 8V |
| IDEAL FOR | 12V STD AGM GEL 2 - 50Ah |
| CABLE ACCESSORIES | 1 4 small |

OptiMATE 1

12V 0.6A
4 STEPS

## TM-401
US$ 39.90
CAD 53.90

***24-7-365 smart maintenance***

Smart voltage & current control

PLUG-IN CASE
DUSTPROOF

| 1 | 2 | 3 | 4 |
|---|---|---|---|
| Low Volt Start (4V) | Controlled CHARGE | OPTIMIZE | OptiMate '365' maintenance |

GLOBAL INPUT 100 V – 240 V

| | |
|---|---|
| CHARGING | 0.6A |
| USE | INDOOR t°min: -4°F / -20°C |
| SAVE | Low Volt start 4V |
| IDEAL FOR | 12V STD AGM GEL 2 - 30Ah |
| CABLE ACCESSORIES | |

OptiMATE 2

12V 0.8A
4 STEPS

**TM-421**
**US$ 52.90**
**CAD 70.90**

## *24-7-365 Advanced maintenance*

- Optimized for START / STOP
- Charges flat batteries from 2 Volt

WEATHERPROOF CASE
with WALL MOUNTS

| 1 | 2 | 3 | 4 |
|---|---|---|---|
| Low Volt Start (2V) | Controlled CHARGE | OPTIMIZE | OptiMate '365' maintenance |

GLOBAL INPUT 100 V – 240 V

| | |
|---|---|
| CHARGING | 0.8A |
| USE | INDOOR / OUTDOOR t°min: -4°F / -20°C |
| SAVE | Low Volt start 2V |
| IDEAL FOR | 12V STD AGM GEL 3 - 96Ah |
| CABLE ACCESSORIES | |

OptiMATE 3

12V 0.8A
7 STEPS

**TM-431**
**US$ 62.90**
**CAD 83.90**

## *Most TRUSTED battery charger in power sports*

- Recovers sulphated batteries
- TEST after charging

WEATHERPROOF CASE
with WALL MOUNTS

| | | | |
|---|---|---|---|
| 1 Low Volt Start (2V) | 2 Turbo SAVE | 3 Pulse SAVE | |
| 4 Controlled CHARGE | 5 OPTIMIZE | 6 TEST after CHARGE | 7 OptiMate '365' maintenance |

GLOBAL INPUT
100V – 240V

| | |
|---|---|
| CHARGING | 0.8A |
| USE | INDOOR / OUTDOOR t°min: -4°F / -20°C |
| SAVE | Low Volt start 2V + 2 step desulfation recovery |
| IDEAL FOR | 12V STD AGM GEL 2 - 50Ah |
| CABLE ACCESSORIES | |

OptiMATE 3 x2 DUAL BANK

12V 0.8A
7 STEPS

## TM-451

US$ 120.90
CAD 161.90

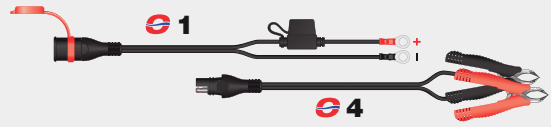
***Most TRUSTED battery charger in power sports*** x2 DUAL BANK

- Independent charge banks
- Charge series connected batteries

WEATHERPROOF CASE
with WALL MOUNTS

| | | | |
|---|---|---|---|
| 1 Low Volt Start (2V) | 2 Turbo SAVE | 3 Pulse SAVE | |
| 4 Controlled CHARGE | 5 OPTIMIZE | 6 TEST after CHARGE | 7 OptiMate '365' maintenance |

GLOBAL INPUT 100V – 240V

| | |
|---|---|
| CHARGING AMPS | 2 x 0.8A |
| USE | INDOOR / OUTDOOR t°min: -4°F / -20°C |
| SAVE | Low Volt start 2V + 2 step desulfation recovery |
| IDEAL FOR | 12V STD AGM GEL 3 - 50Ah |
| CABLE ACCESSORIES (per bank) |  |

OptiMATE 3 x4 QUAD BANK

12V 0.8A
7 STEPS

## Most TRUSTED battery charger in power sports

x4 QUAD BANK

**TM-455**
**US$ 239.90**
**CAD 319.90**

- Independent charge banks
- Charge series connected batteries

WEATHERPROOF CASE with WALL MOUNTS

| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|
| Low Volt Start (2V) | Turbo SAVE | Pulse SAVE | Controlled CHARGE | OPTIMIZE | TEST after CHARGE | OptiMate '365' maintenance |

GLOBAL INPUT 100V – 240V

| | |
|---|---|
| CHARGING AMPS | 4 x 0.8A |
| USE | INDOOR / OUTDOOR t°min: -4°F / -20°C |
| SAVE | Low Volt start 2V + 2 step desulfation recovery |
| IDEAL FOR | 12V STD AGM GEL 3 - 50Ah |
| CABLE ACCESSORIES (per bank) | |

OptiMATE 4

12V 0.8A
9 STEPS

## TM-241
US$ 74.90
CAD 99.90

***Most ADVANCED & TRUSTED battery charger in power sports***

- TESTS before & after charging
- STD & BMW CAN-bus programs
- Recovers batteries from 0.5V

WEATHERPROOF CASE
with WALL MOUNTS
'ARCTIC' CABLE

| | | | | |
|---|---|---|---|---|
| 1 Low Volt Start (0.5V) | 2 TEST before charge | 3 Pulse 'wake up' | 4 Turbo SAVE | |
| 5 Pulse SAVE | 6 Controlled CHARGE | 7 OPTIMIZE | 8 TEST after CHARGE | 9 OptiMate '365' maintenance |

-40°

GLOBAL INPUT 100V – 240V

| | |
|---|---|
| CHARGING AMPS | 0.8A |
| USE | INDOOR / OUTDOOR t°min: -40°F / -40°C |
| SAVE | Low Volt start 0.5V + 2 Step desulfation recovery |
| IDEAL FOR | 12V STD AGM GEL 3 - 50Ah |
| CABLE ACCESSORIES | |

OptiMATE4

12V 0.8A
8 STEPS

# CAN-bus edition

***Most ADVANCED & TRUSTED battery charger in power sports***

**TM-245**
**US$ 89.90**
**CAD 119.90**

- CAN-bus program pre-selected
- 4ft/120cm BIKE charge cable

WEATHERPROOF CASE
with WALL MOUNTS
❄ 'ARCTIC' CABLE

| | | | |
|---|---|---|---|
| **1** CAN-bus 'Wake up' pulse | **2** CAN-bus low volt check | **3** TEST before CHARGE | **4** PULSE SAVE |
| **5** Controlled CHARGE | **6** CAN-bus OPTIMIZE | **7** CAN-bus TEST after CHARGE | **8** CAN-bus Optimate '365' maintenance |

-40°

GLOBAL INPUT
100V – 240V

| | |
|---|---|
| CHARGING AMPS | 0.8A |
| USE | INDOOR / OUTDOOR ❄ t°min: -40°F / -40°C |
| SAVE | Low Volt start 0.5V + deep discharge recovery |
| IDEAL FOR | 12V STD AGM GEL 3 - 50Ah |
| CABLE ACCESSORIES | |

OptiMATE 5 start/stop

12V 4A
6 STEPS

## TM-221

US$ 79.90
CAD 106.90

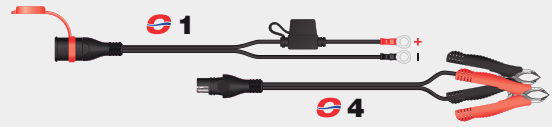
***Ideal for START/ STOP & Deep Cycle Applications***

- Smart charge control
- Saves flat batteries from 2V

WEATHERPROOF CASE with WALL MOUNTS

| | | |
|---|---|---|
| 1 Low Volt Start (2V) | 2 Pulse SAVE | 3 Controlled CHARGE |
| 4 OPTIMIZE | 5 TEST after CHARGE | 6 OptiMate '365' maintenance |

GLOBAL INPUT 100V – 240V

| | |
|---|---|
| CHARGING AMPS | 4A |
| USE | INDOOR / OUTDOOR t°min: -4°F / -20°C |
| SAVE | Low Volt start 2V + deep discharge |
| IDEAL FOR | ECO DEEP CYCLE<br>12V EFB STD AGM GEL 15 - 192Ah |
| CABLE ACCESSORIES |  |

OptiMATE 5 voltmatic

6V 4A / 12V 2.8A

8 STEPS

## ADVANCED 6V & 12V battery care

**TM-223**

**US$ 89.90**

**CAD 119.90**

*Voltmatic* **6V/12V selection**

**Saves sulphated 6V & 12V batteries**

WEATHERPROOF CASE with WALL MOUNTS

| | | | |
|---|---|---|---|
| **1** Low Volt Start (1V) | **2** *Voltmatic* CHARGE selection | **3** Turbo SAVE | **4** Pulse SAVE |
| **5** Controlled CHARGE | **6** OPTIMIZE | **7** TEST after CHARGE | **8** OptiMate '365' maintenance |

GLOBAL INPUT 100V – 240V

| | |
|---|---|
| **CHARGING AMPS** | **4A @ 6V / 2.8A @ 12V** |
| **USE** | **INDOOR / OUTDOOR** t°min: -4°F / -20°C |
| **SAVE** | **Low Volt start 1V + 2 Step desulfation recovery** |
| **IDEAL FOR** | 6V 12V STD AGM GEL 10-192Ah (6V) 8-120Ah (12V) |
| **CABLE ACCESSORIES** | |

OptiMATE 6 ampmatic

12V 5A
9 STEPS

# TM-181

US$ 119.90
CAD 159.90

## *The world's most advanced fully automatic battery charger*

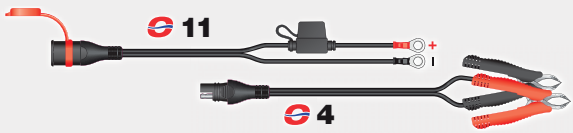
- TESTS before & after charging
- Recovers batteries from 0.5V
- *Ampmatic* : adjusts to any battery size

WEATHERPROOF CASE
with WALL MOUNTS
❄ 'ARCTIC' CABLE

| | | | | |
|---|---|---|---|---|
| 1 Low Volt Start (0.5V) | 2 TEST before CHARGE | 3 Pulse 'wake up' | 4 Turbo SAVE | |
| 5 *Ampmatic* Pulse SAVE | 6 *Ampmatic* CHARGE | 7 *Ampmatic* OPTIMIZE | 8 TEST after CHARGE | 9 OptiMate '365' maintenance |

-40°

GLOBAL INPUT 100V – 240V

| | |
|---|---|
| CHARGING AMPS | 5A *Ampmatic* |
| USE | INDOOR / OUTDOOR ❄ t°min: -40°F / -40°C |
| SAVE | Low Volt start 0.5V + 2 Step desulfation recovery |
| IDEAL FOR | 12V STD AGM GEL 3 - 240Ah |
| CABLE ACCESSORIES |   |

OptiMATE 7 ampmatic

12V 10A
9 STEPS

## TM-255

US$ 169.90
CAD 226.90

***The worlds most advanced fully automatic charger, with T° compensation***

- TESTS before & after charging
- Recovers batteries from 0.5V
- *Ampmatic* : adjusts to any battery size

WEATHERPROOF CASE
with WALL MOUNTS
❄ 'ARCTIC' CABLE

| | | | | |
|---|---|---|---|---|
| 1 Low Volt Start (0.5V) | 2 TEST before CHARGE | 3 Pulse 'wake up' | 4 Turbo SAVE | |
| 5 *Ampmatic* Pulse SAVE | 6 *Ampmatic* CHARGE | 7 *Ampmatic* OPTIMIZE | 8 TEST after CHARGE | 9 OptiMate '365' maintenance |

-40°

GLOBAL INPUT 100V – 240V

| | |
|---|---|
| CHARGING AMPS | 10A *Ampmatic* |
| USE | INDOOR / OUTDOOR ❄ t°min: -40°F / -40°C |
| SAVE | Low Volt start 0.5V + 2 Step desulfation recovery |
| IDEAL FOR | 12V STD AGM GEL 3 - 400Ah |
| CABLE ACCESSORIES | |

OptiMATE 6 select

12V 5A
9 STEPS

# TM-191

US$ 129.90
CAD 173.90

## *The world's most advanced battery charger for 12V starter & deep cycle batteries*

- *Select 14.4V / 14.7V* charge modes
- Temperature compensated charging
- Power supply service mode - 13.6V 4A

WEATHERPROOF CASE
with WALL MOUNTS
❄ 'ARCTIC' CABLE

| | | | | |
|---|---|---|---|---|
| 1 Low Volt Start (0.5V) | 2 TEST before CHARGE | 3 Pulse 'wake up' | 4 Turbo SAVE | |
| 5 *Ampmatic* Pulse SAVE | 6 *Ampmatic* CHARGE | 7 *Ampmatic* OPTIMIZE | 8 TEST after CHARGE | 9 SMART OptiMate '365' maintenance |

-40°

GLOBAL INPUT 100V – 240V

| | |
|---|---|
| CHARGING AMPS | 5A *Ampmatic* |
| SELECT CHARGE | 14.4V / 14.7V POWER SUPPLY : 4A @ 13.6V |
| USE | INDOOR / OUTDOOR ❄ t°min: -40°F / -40°C |
| SAVE | Low Volt start 0.5V (12V) + 2 Step desulfation recovery |
| IDEAL FOR | 12V STD AGM GEL 3 - 240Ah |
| CABLE ACCESSORIES | |

OptiMATE 7 select

12V 10A
9 STEPS

**TM-251**
**US$ 179.90**
**CAD 239.90**

## *The world's most advanced battery charger for 12V starter & deep cycle batteries*

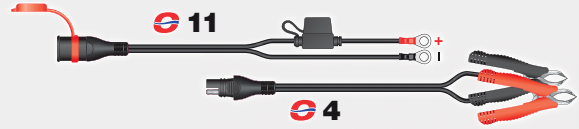
- *Select 14.4V / 14.7V* charge modes
- Temperature compensated charging
- Power supply service mode – 13.6V 8A

WEATHERPROOF CASE
with WALL MOUNTS
❄ 'ARCTIC' CABLE

| | | | | |
|---|---|---|---|---|
| 1 Selection | 2 Low Volt Start (0.5V) | 3 TEST before CHARGE | 4 Turbo SAVE | |
| 5 Pulse SAVE | 6 Controlled CHARGE | 7 OPTIMIZE | 8 TEST after CHARGE | 9 OptiMate '365' maintenance |

-40°

GLOBAL INPUT 100V – 240V

| | |
|---|---|
| CHARGING AMPS | 10A *Ampmatic* |
| SELECT CHARGE | 14.4V / 14.7V POWER SUPPLY : 8A @ 13.6V |
| USE | INDOOR / OUTDOOR ❄ t°min: -40°F / -40°C |
| SAVE | Low Volt start 0.5V (12V)<br>+ 2 Step desulfation recovery |
| IDEAL FOR | 12V STD AGM GEL 3 - 400Ah |
| CABLE ACCESSORIES |  |

# OptiMATE 6 12V-24V

12V 5A / 24V 2.5A
8 STEPS

## The world's most advanced 12V & 24V charger

**TM-193**
**US$ 129.90**
**CAD 173.90**

- *Select 12V 5A / 24V 2.5A* modes
- Temperature compensated charging
- *Ampmatic* : adjusts to any battery size
- SAFE! Selected voltage must match battery.

WEATHERPROOF CASE
with WALL MOUNTS
❄ 'ARCTIC' CABLE

| | | | |
|---|---|---|---|
| 1 Volts select > Low Volt start | 2 Automatic protection | 3 TEST before charge | 4 *Ampmatic* Pulse SAVE |
| 5 *Ampmatic* CHARGE | 6 *Ampmatic* OPTIMIZE | 7 TEST after CHARGE | 8 SMART OptiMate '365' maintenance |

-40°

GLOBAL INPUT
100V – 240V

| | |
|---|---|
| CHARGING AMPS | 5A *Ampmatic* @ 12V / 2.5A *Ampmatic* @ 24V |
| SELECT CHARGE | 12V / 24V |
| USE | INDOOR / OUTDOOR ❄ t°min: -40°F / -40°C |
| SAVE | Low Volt start 0.5V (12V)<br>+ 1 Step desulfation recovery |
| IDEAL FOR | STD AGM GEL<br>12V : 3 - 200Ah<br>24V : 1-100Ah |
| CABLE ACCESSORIES | |

OptiMATE 7 12V/24V

12V 10A / 24V 5A
8 STEPS

## TM-261
US$ 179.90
CAD 239.90

***For 12V & 24V batteries with accurate temperature controlled charging***

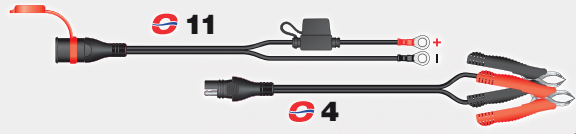
- *Select 12V 10A / 24V 5A*
- Temperature compensated charging
- *Ampmatic* : adjusts to any battery size
- SAFE! Selected voltage must match battery.

WEATHERPROOF CASE
with WALL MOUNTS
❄ 'ARCTIC' CABLE

| | | | |
|---|---|---|---|
| 1 Voltage Selection | 2 Automatic Protection | 3 TEST before CHARGE | 4 Low Volt Pulse SAVE |
| 5 Controlled CHARGE | 6 OPTIMIZE | 7 TEST after CHARGE | 8 OptiMate '365' maintenance |

-40°

GLOBAL INPUT 100V – 240V

| | |
|---|---|
| CHARGING AMPS | 10A *Ampmatic* @ 12V / 5A *Ampmatic* @ 24V |
| SELECT CHARGE | 12V / 24V |
| USE | INDOOR / OUTDOOR ❄ t°min: -40°F / -40°C |
| SAVE | Low Volt start 0.5V (12V)<br>+ 1 Step desulfation recovery |
| IDEAL FOR | STD AGM GEL<br>12V : 3 - 400Ah<br>24V : 3 - 200Ah |
| CABLE ACCESSORIES |  |

# OptiMATE lithium

# WHY YOU NEED AN OPTIMATE LITHIUM BATTERY CHARGER.

**Guaranteed! : More Battery Power - Longer Battery Life - Saves Your Low Volt Lithium Battery.**

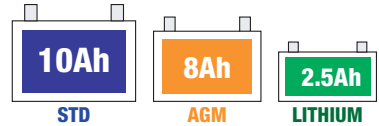
Ah ✓

**A LITHIUM battery delivers the same cranking amps as the lead-acid battery it replaced, but with 3-4 times less amp-hours.**

*A stored vehicle with 'always on' circuitry drain amp-hours out of its battery; a Lithium battery will drain faster.*

**COMPARISON:**

*Battery Size that can deliver 120 CRANKING AMPS.*




= 120 C.A.

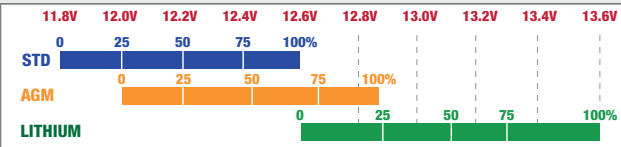
VOLTS ✓

**A LITHIUM Battery's voltage range is higher than lead-acid.**

*A lead-acid charger will not fully charge a lithium battery.*
*Vehicle charge system is designed for lower voltage of Lead-Acid; at idle or low RPM a Lithium battery loses charge.*

**VOLTS AND % CHARGE:**

**STD LEAD-ACID**
**AGM LEAD-ACID**
**LiFePO$_4$ LITHIUM**



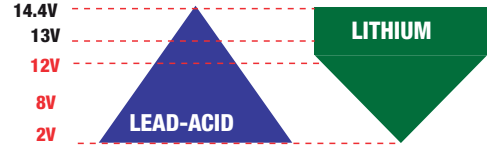

SAVE A FLAT BATTERY ✓

**A flat LITHIUM battery needs low current to safely recover.**

*At low volts lead-acid chargers deliver high current that will damage a Lithium battery.*

**CHARGE CURRENT**

**LEAD-ACID AND LITHIUM**




CHARGING ✓

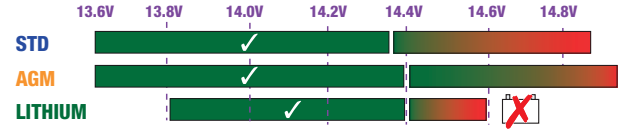
**A LITHIUM battery needs accurate voltage charging.**

*Voltage higher than 14.6V damages Lithium batteries.*

*Some Lead-Acid chargers deliver more than 14.6V.*

**CHARGE VOLTAGE**

**LEAD-ACID AND LITHIUM**



OptiMATE lithium LFP 4s 0.8A

12.8V 0.8A
8 STEPS

**TM-471**
**US$ 64.90**
**CAD 86.90**

## *Unique LiFePO4 battery protection*

- LiFePO4 Low Volt SAVE
- Battery BMS auto reset

WEATHERPROOF CASE with WALL MOUNTS

LFP

| | | | |
|---|---|---|---|
| 1 Low Volt Start (0.5V) | 2 Ultra LOW VOLT SAVE | 3 LOW VOLT SAVE / cellmonitoring | 4 TEST - cell damage |
| 5 Cell-balancing CHARGE | 6 OPTIMIZE | 7 TEST after CHARGE | 8 OptiMate '365' maintenance |

GLOBAL INPUT 100V – 240V

| | |
|---|---|
| CHARGING AMPS | LFP 0.8A |
| USE | INDOOR / OUTDOOR t°min: -4°F / -20°C |
| SAVE | Low Volt start 0.5V + 3 Step low volt SAVE & TEST |
| IDEAL FOR | 12V LFP up to 30Ah |
| CABLE ACCESSORIES | |

OptiMATE lithium LFP 4s 0.8A x4 QUAD BANK

12.8V 0.8A
8 STEPS

## Unique $LiFePO_4$ battery preparation for DEALERS

**TM-485**
**US$ 243.90**
**CAD 325.90**

- Keep batteries 100% ready
- 4 independent charge banks

WEATHERPROOF CASE with WALL MOUNTS

LFP

| | | | |
|---|---|---|---|
| 1 Low Volt Start (0.5V) | 2 Ultra LOW VOLT SAVE | 3 LOW VOLT SAVE / cellmonitoring | 4 TEST - cell damage |
| 5 Cell-balancing CHARGE | 6 OPTIMIZE | 7 TEST after CHARGE | 8 OptiMate '365' maintenance |

GLOBAL INPUT 100V – 240V

| | |
|---|---|
| CHARGING AMPS | LFP 4 x 0.8A |
| USE | INDOOR / OUTDOOR t°min: -4°F / -20°C |
| SAVE | Low Volt start 0.5V + 3 Step low volt SAVE & TEST |
| IDEAL FOR | 12V LFP up to 30Ah |
| CABLE ACCESSORIES (per bank) | |

OptiMATE LFP 4s 5A lithium

12.8V 5A
10 STEPS

# Ultimate LiFePO4 professional battery charger

**TM-291**
**US$129.90**
**CAD 173.90**

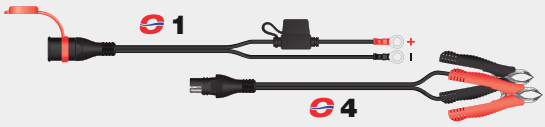
- Battery BMS auto reset
- Advanced $LiFePO_4$ low volt SAVE
- *SafeT°* charge range : -20°C to 45°C
- *Ampmatic* : adjusts to any battery size

WEATHERPROOF CASE
with WALL MOUNTS

LFP

| | | | | |
|---|---|---|---|---|
| 1 Low Volt Start (0.5V) | 2 TEST before charge | 3 Temperature check | 4 Ultra LOW VOLT SAVE | 5 LOW VOLT SAVE / cellmonitoring |
| 6 TEST - cell damage | 7 Cell-balancing CHARGE | 8 OPTIMIZE | 9 TEST after CHARGE | 10 OptiMate '365' maintenance |

GLOBAL INPUT 100V – 240V

| | |
|---|---|
| CHARGING AMPS | 5A *Ampmatic* |
| USE | INDOOR / OUTDOOR t°min: -4°F / -20°C |
| SAVE | Low Volt start 0.5V + 3 Step low volt SAVE & TEST |
| IDEAL FOR | 12V LFP up to 100Ah |
| CABLE ACCESSORIES |  |

OptiMATE lithium LFP Select

12.8V 9.5A / 16V 7.5A
10 STEPS

# The Ultimate LiFePO4 professional battery charger for 12.8V and 16V batteries

**TM-271**
**US$ 179.90**
**CAD 239.90**

- Battery BMS auto reset
- Advanced $LiFePO_4$ low volt SAVE
- *SafeT°* charge range : -20°C to 45°C
- *Ampmatic* : adjusts to battery size

LFP

WEATHERPROOF CASE with WALL MOUNTS
'ARCTIC' CABLE

| | | | | | | |
|---|---|---|---|---|---|---|
| 1 Low Volt Start (0.5V) | 2 TEST before charge | 3 Temperature check | 4 Ultra LOW VOLT SAVE | 5 LOW VOLT SAVE / cellmonitoring | -40° | |
| 6 TEST - cell damage | 7 Cell-balancing CHARGE | 8 OPTIMIZE | 9 TEST after CHARGE | 10 OptiMate '365' maintenance | GLOBAL INPUT 100V – 240V | |

| | |
|---|---|
| CHARGING AMPS | 9.5A *Ampmatic* @ 12.8V / 7.5A *Ampmatic* @ 16V |
| SELECT CHARGE | 12.8V / 16V |
| USE | INDOOR / OUTDOOR t°min: -40°F / -40°C |
| SAVE | Low Volt start 0.5V (12V) + 3 Step low volt SAVE & TEST |
| IDEAL FOR | LFP Up to 200Ah |
| CABLE ACCESSORIES | 11 / 4 |

OptiMATE 12V DC→DC 12V 2A

12V 2A
6 STEPS

## TM-500
US$ 89.90
CAD 119.90

***Charge your 12V / 12.8V battery from another 12V battery!***

- Charge without AC power
- Maintain remote battery
- For Lead-acid & LiFePO4

WEATHERPROOF CASE
with WALL MOUNTS
❄ 'ARCTIC' CABLE

| | | |
|---|---|---|
| 1 Low Volt Start (1V) | 2 Pulse SAVE | 3 Controlled CHARGE |
| 4 OPTIMIZE | 5 TEST after CHARGE | 6 OptiMate '365' maintenance |

-40° GLOBAL INPUT 100V – 240V

| | |
|---|---|
| CHARGING AMPS | 2A |
| USE | INDOOR / OUTDOOR ❄ t°min: -40°F / -40°C |
| SAVE | Low Volt start 1V + Pulse recovery |
| IDEAL FOR | 12V STD AGM GEL LFP 6 - 96Ah |
| CABLE ACCESSORIES | |

OptiMATE solar

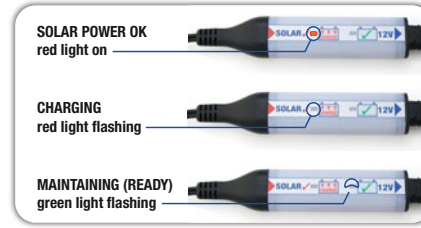
## SOLAR CHARGER WITH 6W PANEL

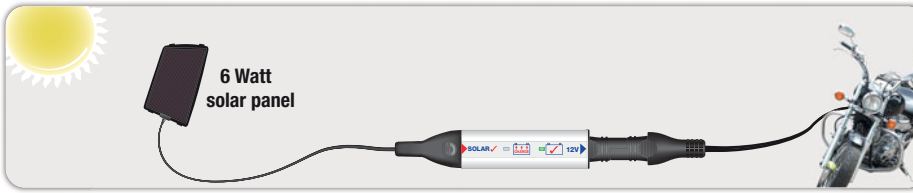
12V 2A
4 STEPS

**TM-524**
**US$ 99.90**
**CAD 133.90**

### *The world's most efficient 12V solar pulse charge system*

- Smart pulse current control
- SAVE your 'dead' battery with solar power
- Controlled SAFE long term maintenance



INCLUDED:
6W SOLAR PANEL with WEATHERPROOF CASE
+ MOUNTING HARDWARE
+ 0-140 12V CHARGE CONTROLLER
+ CABLE ACCESSORIES

| 1 | 2 | 3 | 4 |
|---|---|---|---|
| TEST solar volts & battery | Pulse SAVE (from 1V) | Pulse CHARGE | OptiMate '365' maintenance |

| | |
|---|---|
| CHARGING | 2A average, 4 - 5A peak pulse |
| USE | INDOOR / OUTDOOR t°min: -4°F / -20°C |
| SAVE | Low Volt start 1V Pulse SAVE |
| IDEAL FOR | 12V STD AGM GEL from 2Ah |
| CABLE ACCESSORIES | |

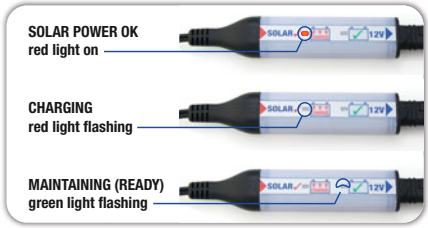
OptiMATE solar

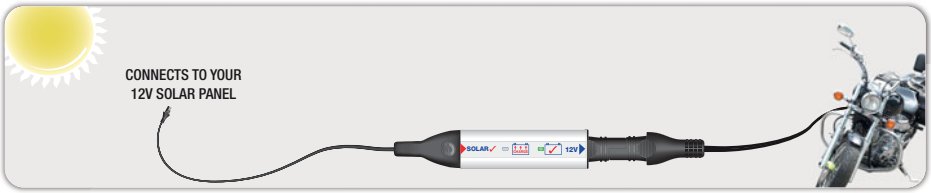
12V 2A
4 STEPS

# The world's most efficient 12V solar pulse charger

**TM-520**
**US$ 52.90**
**CAD 70.90**

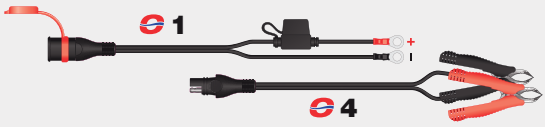
- Smart pulse current control
- SAVE your 'dead' battery with solar power
- Controlled SAFE long term maintenance




INCLUDED:
+ 0-140 12V CHARGE CONTROLLER
+ CABLE ACCESSORIES

| 1 | 2 | 3 | 4 |
|---|---|---|---|
| TEST solar volts & battery | Pulse SAVE (from 1V) | Pulse CHARGE | OptiMate '365' maintenance |

| | |
|---|---|
| CHARGING | 2A average, 4 - 5A peak pulse |
| USE | INDOOR / OUTDOOR t°min: -4°F / -20°C |
| SAVE | Low Volt start 1V Pulse SAVE |
| IDEAL FOR | 12V STD AGM GEL from 2Ah |
| CABLE ACCESSORIES |  |

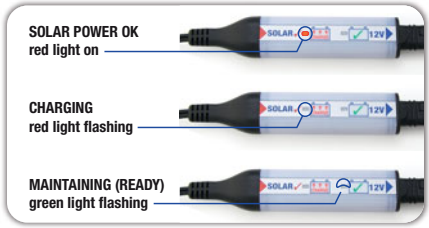
OptiMATE solar

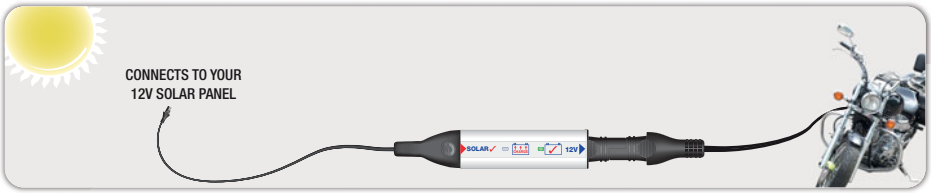
6V 2A
4 STEPS

## The world's first 6V solar pulse charger that wortks from a standard 12V solar panel

**TM-521**
**US$ 52.90**
**CAD 70.90**

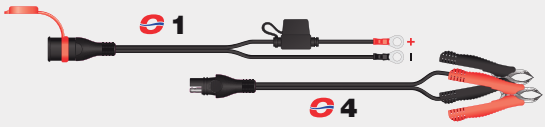
- Smart pulse current control
- SAVE your 'dead' battery with solar power
- Controlled SAFE long term maintenance



INCLUDED:
+ 0-141 6V CHARGE CONTROLLER
+ CABLE ACCESSORIES

| 1 | 2 | 3 | 4 |
|---|---|---|---|
| TEST solar volts & battery | Pulse SAVE (from 1V) | Pulse CHARGE | OptiMate '365' maintenance |

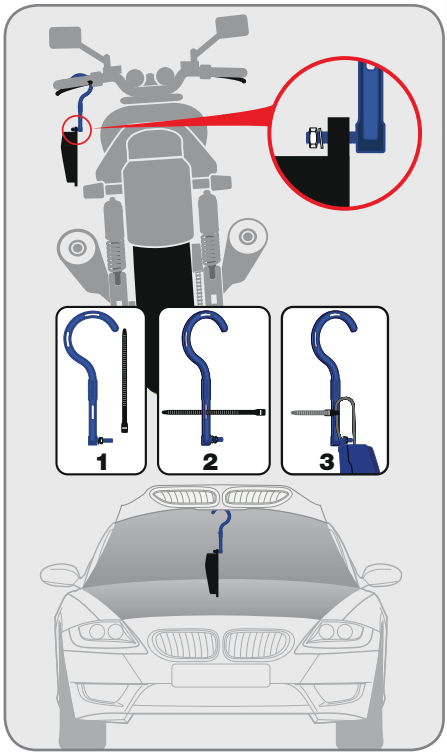
| | |
|---|---|
| CHARGING | 2A average, 4 - 5A peak pulse |
| USE | INDOOR / OUTDOOR t°min: -4°F / -20°C |
| SAVE | Low Volt start 1V Pulse SAVE |
| IDEAL FOR | 12V STD AGM GEL from 2Ah |
| CABLE ACCESSORIES |   |

# Charger HOOK

***Keep your charger off the ground and in plain view.***

***Supports***
***OptiMate 2, 3, 4, 5, 6, 7, Lithium***

**TS-252**
**US$ 4.90**
**CAD 6.90**



OptiMATE TEST

## *Cranking power & alternator tester*

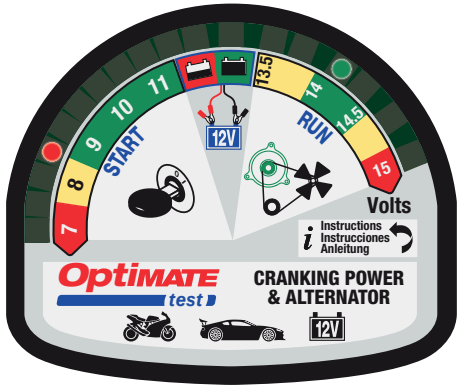
**TS-121**
**US$ 39.90**
**CAD 53.90**

**Analyze battery and charging system in 3 steps!**

1) Check battery charge level.

2) Record lowest start volts (displayed for 20 seconds).

3) Verify vehicle system charging voltage is in range for lead-acid and not overcharging LiFePO4 batteries.



OptiMATE TEST

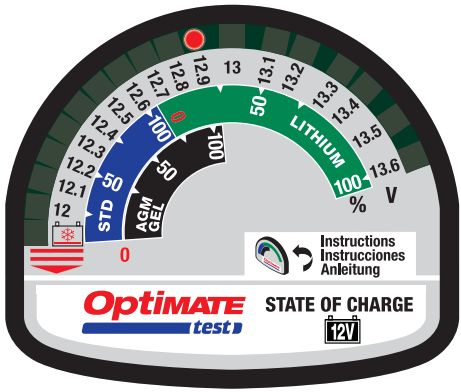
## *State of charge battery tester*

**TS-127**
**US$39.90**
**CAD 53.90**

**Battery tester for all Lead-acid and $LiFePO_4$ / LFP Lithium batteries.**

**State of charge result in VOLTS & %.**
**Easy to use!**

**Connect clips to the battery and read the result.**



OptiMATE
*The Battery Saving Charger*

**GENERAL SPECIFICATIONS**

# AC POWERED BATTERY CHARGERS

Global AC supply range: 100 - 240Vac 50-60Hz

Tested and conforms to electrical safety and electromagnetic interference requirements for North America (Canada & USA).

Complies with ROHS lead-free regulations.

California Energy Commission listed.

## WARRANTY

Three year product replacement warranty. Find more information at *www.tecmate.com/warranty.*

## DESIGN

All OptiMate battery chargers are 100% designed by TecMate.

OptiMATE accessories

Find the full range of OptiMate Accessories CABLE, USB, LED, battery MONITOR and TESTER at **optimate1.com**