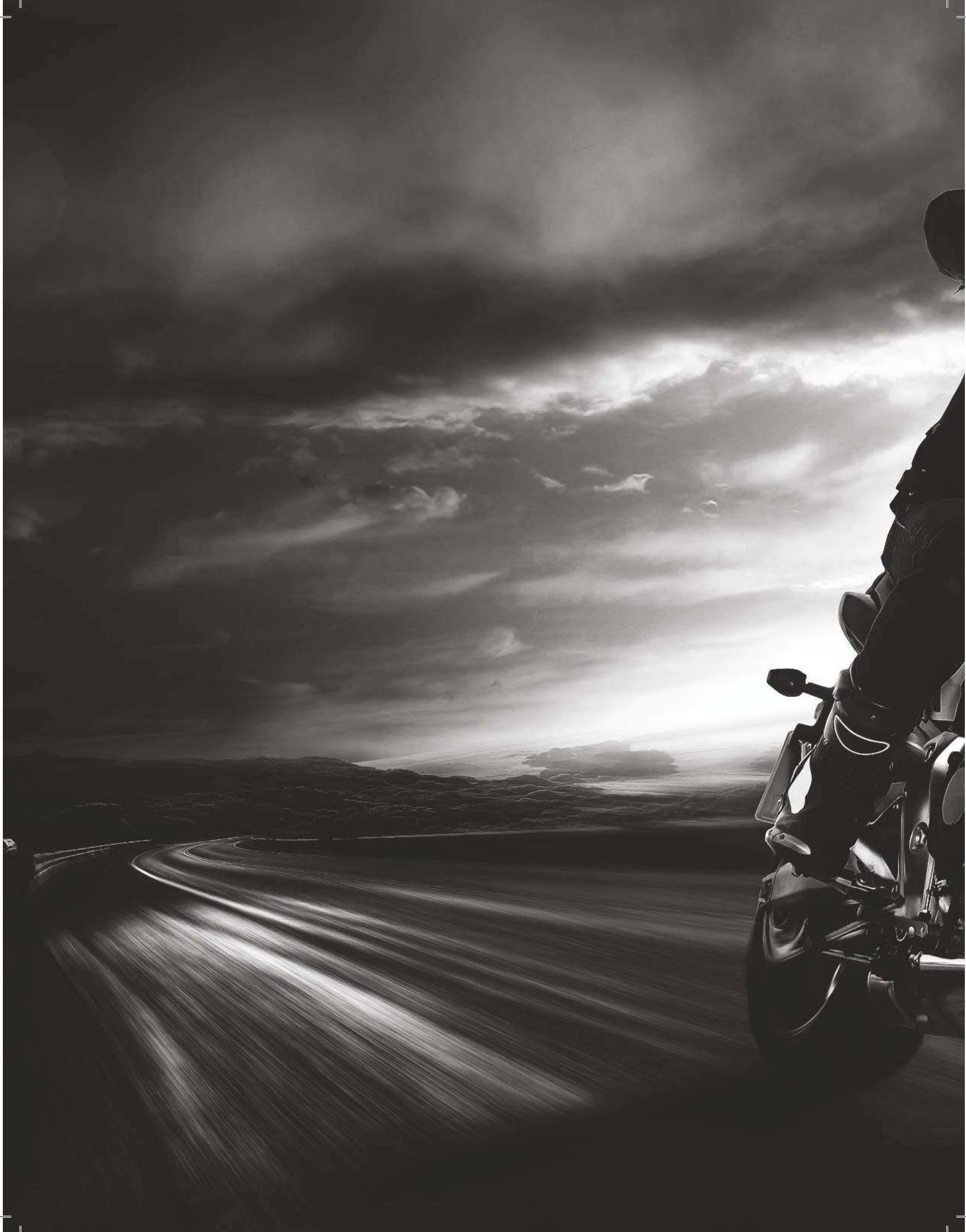




**NORTH AMERICA**  
**PRODUCT GUIDE 2018**  
BATTERY CHARGERS AND ACCESSORIES

**CTEK** | MAXIMIZING  
BATTERY  
PERFORMANCE







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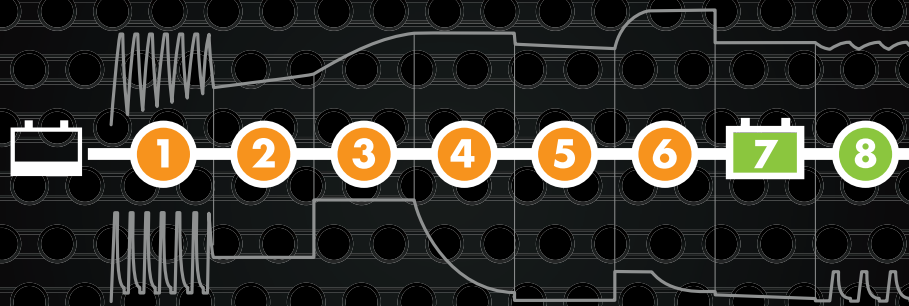
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## EASY CHARGING

### STEP BY STEP

CTEK Chargers maximize the life of your battery through application of a series of 4 to 8 patented charging and maintenance stages using unique microprocessor controlled charging processes. When required, they will automatically take appropriate action based on your batteries needs: reviving, charging, conditioning, desulphating, and maintaining your battery. CTEK chargers will constantly monitor the condition of your battery and act as needed to keep it at peak capacity. CTEK Chargers regulate the charge voltage to protect sensitive and expensive vehicle electronics. Certain CTEK chargers have a special reconditioning or RECOND mode that helps to revive batteries that have been sitting

unattended for long periods and are deeply discharged. Others even have a power supply mode, so you can change out your vehicle's batteries without losing any computer program settings and/or to provide clean and constant power in support of any professional shop flash reprogramming service needs. Once the charger is connected, you can forget about how long the battery needs to be charged or whether it is sulphated or not. Our chargers take care of everything automatically so that you can enjoy the work or pleasure that your battery was destined to provide. We call it "Connect and Forget".



#### 1 STEP 1 DESULPHATION

Pulsating voltage removes sulphates that may have accumulated on the battery plates and restores battery capacity.

#### 2 STEP 2 SOFT START

Tests to see if the battery can accept a charge. Charging then begins if the battery is OK.

#### 3 STEP 3 BULK CHARGE

Charges at maximum current and brings the battery up to approximately 80% of its capacity

#### 4 STEP 4 ABSORPTION

Charges at declining current until the battery has reached 100% of its capacity

#### 5 STEP 5 ANALYZE

Tests if the battery is holding its charge. Batteries that cannot hold charge may need replacement.

#### 6 STEP 6 RECOND

When selected, this step provides a reconditioning function for deeply discharged batteries.

#### 7 STEP 7 FLOAT (maintenance),

Here the battery is fully charged. This step maintains the battery voltage at peak capacity by providing a constant voltage charge.

#### 8 STEP 8 PULSE, Maintenance charging

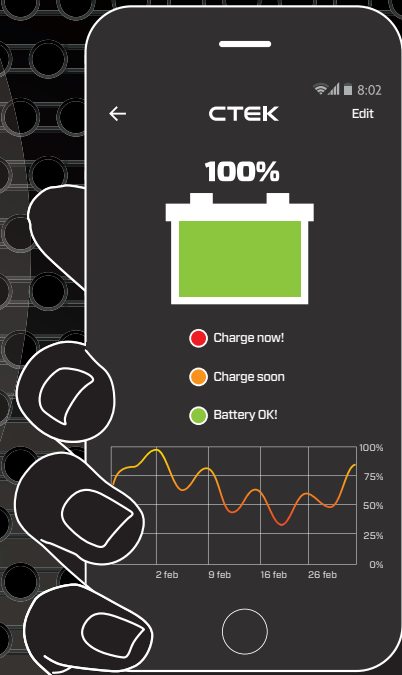
Here the battery is maintained at 95-100% capacity. The charger monitors the battery voltage and gives a pulse when necessary, to keep the battery fully charged.



# CONSUMER

*Modern cars are full of electronics, and demands on vehicle batteries are increasing all the time. One day your battery won't be able to power the electronics, and your vehicle may not start. By using a CTEK charger you won't have to worry what adventures await!*





## BATTERY SENSE SMART BATTERY HEALTH MONITOR

Prevent breakdowns. Easily track your battery state of health with this unique Bluetooth enabled smart battery monitoring device. It's easy to install and data is delivered through a free to download iPhone or Android App.



Compatible with:  
Android OS 4.4 (or higher) and Bluetooth 4.0 hardware.  
iOS 7 (or higher) and Bluetooth 4.0 hardware (iPhone 4S or newer).

## CTX BATTERY SENSE

PART NO. 40-149

Take control of your battery's health and how it effects your life. Simply connect the Battery Sense monitor to your battery and download the free App.

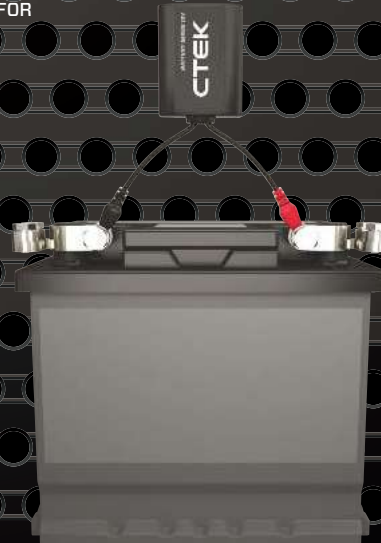
### FEATURES

- SUITABLE FOR CARS, MOTORCYCLE AND ENGINE STARTER BATTERIES 4.5AH OR OVER.
- CONTINUOUSLY MEASURES BATTERY HEALTH TO PROVIDE REAL-TIME INFORMATION.
- SYNC BATTERY STATISTICS VIA BLUETOOTH TO YOUR SMART PHONE.
- SYNC MULTIPLE BATTERY SENSE MONITORS TO YOUR PHONE.
- SIMPLE TO UNDERSTAND GRAPHICAL CONDITION REPORT ON YOUR VEHICLE'S BATTERY.
- VISUALIZE BATTERY HEALTH TRENDS WITH UP TO THREE MONTHS OF STORED DATA.
- NOTIFIES YOU IF YOUR BATTERY'S STATE OF CHARGE FALLS TO A CRITICAL LEVEL OR IF MEASUREMENTS ARE NOT SYNCED FOR SEVEN DAYS.



### TECHNICAL DATA

Rated voltage DC	7.0-16VDC
Min battery voltage	7.0VDC
Max current consumption	Less than 1mA @ 12.5V
Ambient temperature	-22°F (-30°C) to 185°F (85°C)
Battery types	12V lead-acid batteries
Battery capacity	4.5-200Ah
Insulation	IP67
Warranty	2 Year Limited Warranty







## CT5 TIME TO GO

PART NO. 40-255

CT5 TIME TO GO puts you in the picture by giving an answer to the questions “when can I try and start my vehicle after a battery has died” and “how long before my battery is charged?” CTEK can now give all vehicle-owning consumers exactly what they want – the ability to plan their day.

### FEATURES

- FOR ALL TYPES OF LEAD-ACID 12V BATTERIES (WET, EFB, MF, CA/CA, AGM AND GEL).
- TELLS YOU HOW LONG BEFORE THE BATTERY IS CHARGED AND READY TO GO.
- INDICATOR TO TELL YOU WHEN YOU CAN TRY TO START YOUR VEHICLE AFTER A DEAD BATTERY.
- FULLY AUTOMATIC CHARGING WITH MAX 4.3A.
- TESTS AND RESTORES BATTERY CAPACITY.
- NON-SPARKING, REVERSE POLARITY PROTECTED.



### TECHNICAL DATA

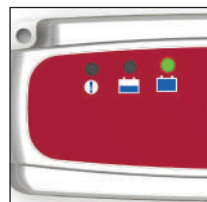
Voltage	14.4/14.7/15.8 V
Charging current	Max 4.3A
Charger type	Multi Step fully automatic charging cycle
Battery type	All 12V lead-acid batteries
Battery capacity	20-160Ah
Insulation	IP65 (splash and dust proof)
Warranty	5 year warranty

Designed specifically for 6V batteries, the UC 800 is the charger that can give your vintage vehicle a new lease on life. It is a full featured 6V battery charger in a small full featured design that charges and maintains everything from small 1.2Ah batteries up to the larger automotive and commercial battery types.

- Fully automatic charging and maintenance in 4 steps maximizes battery power, performance and life.
- Compact and durable design – splash resistant and dustproof to IP65 standards.
- Unique patented maintenance charge software provides a combination of maximized battery performance and life.
- Patented desulphation functionality that extends battery life.
- No sparks, short-circuit proof and reverse-polarity protected for trouble-free usage.

### TECHNICAL DATA

Voltage	7.2V
Charging current	Max 0.8A
Charger type	4 step, fully automatic charging cycle
Battery type	6V lead-acid batteries
Battery capacity	1.2-100Ah, Maintenance charging up to 100Ah
Insulation	IP65 (splash and dust proof)
Warranty	5 Year Limited Warranty

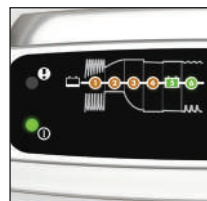


The US 0.8 offers state of the art technology and is perfect for charging smaller 12V batteries that can be found in scooters, motorcycles, jet skis, snowmobiles, ATV's and lawnmowers. It is also suitable for maintenance charging 'normal size' car batteries. The unique display allows the user to follow the entire charging process. The US 0.8 is designed to protect vehicle electronics. It is non-sparking, reverse polarity protected and short-circuit proof.

- Charges batteries up to 32Ah. Maintains larger batteries up to 100Ah.
- Fully automatic, 6 step charging process includes patented desulphation and pulse maintenance programs.
- Compact tough design – splash resistant and dustproof to IP65 standards.

### TECHNICAL DATA

Voltage	14.4V
Charging current	Max 0.8A
Charger type	6 step, fully automatic charging cycle
Battery type	12V lead-acid batteries
Battery capacity	1.2-32Ah, maintenance charging up to 100Ah
Insulation	IP65 (splash and dust proof)
Warranty	5 Year Limited Warranty





The MUS 3300 is a fully automatic battery charger with patented Float/Pulse maintenance. The MUS 3300 solves a broad range of battery related problems and is an ideal charger for everyday use. The MUS 3300 tests battery condition before charging to establish if it can receive and retain charge. The MUS 3300 features a patented automatic desulphation phase during the early charging process. A special 'Snowflake' mode for optimum charging on cold winter days and for AGM batteries. The MUS 3300 is ideal for long-term maintenance. The entire charging process is followed on the easy to read LED display.

- Charges batteries up to 75Ah. Maintain larger batteries up to 120Ah.
- Unique 4 step charging process.
- Cold weather /AGM mode.
- Connect and Forget.
- Extends battery life.

**TECHNICAL DATA**

Voltage	14.4/14.7V
Charging current	Max 3.3A
Charger type	4 step, fully automatic charging cycle
Battery type	All 12V Lead Acid types
Battery capacity	1.2-75Ah, maintenance charging up to 120Ah
Insulation	IP65 (splash and dust proof)
Warranty	5 Year Limited Warranty



The MXS 5.0 offers a unique eight step approach to battery care. Fully automatic microprocessor controlled charger with built-in automatic temperature sensor features a unique combination of advanced charging modes and makes the new MXS 5.0 the fastest, most effective and versatile consumer charger CTEK has ever made. The MXS 5.0 features capabilities for improved charging in all weather. It is the perfect charger for the user with multiple vehicle types and higher demand battery charging and maintenance requirements. Provides an outstanding charging experience!

- Charges batteries up to 110 Ah. Maintains larger batteries up to 160 Ah.
- Unique Reconditioning mode.
- Built-in temperature sensing capabilities
- AGM and new EFB (Enhanced Flooded Battery) battery charging capability
- 8 step charging program

**TECHNICAL DATA**

Voltage	14.4/14.7/15.8 V
Charging current	Max 4.3 A
Charger type	8 step, fully automatic charging cycle.
Battery type	12 V lead-acid batteries
Battery capacity	1.2-110 Ah, maintenance charging up to 160 Ah
Insulation	IP65 (splash and dust proof)
Warranty	5 year warranty



## MUS 4.3 TEST&CHARGE

PART NO. 56-959

The MUS 4.3 TEST&CHARGE combines an advanced microprocessor controlled battery charger with a battery and alternator test function to provide the ultimate in battery testing, charging and maintenance.

**TESTING** – Three easy to use programs to test battery voltage, starting power and alternator performance to provide a complete picture of battery and vehicle charging system health.

**CHARGING** – MUS 4.3 TEST&CHARGE provides excellent charging performance. The charger solves a broad range of battery problems and features include a patented automatic desulphation program and a special reconditioning function that revives and restores deeply discharged and stratified batteries. The patented Float/Pulse maintenance makes the charger ideal for long-term maintenance.

### TECHNICAL DATA

Voltage	14.4/14.7/15.8V
Charging current Max	4.3A
Charger type	8 step, fully automatic charging cycle 3 voltage test programs
Battery type	12V lead-acid batteries
Battery capacity	1.2-110Ah, maintenance charging up to 160Ah
Insulation	IP65 (splash and dust proof)
Warranty	5 Year Limited Warranty



## MUS 4.3 POLAR

PART NO. 56-958

The MUS 4.3 POLAR has been specially developed to offer excellent all around charging but with the addition of special cold weather performance. MUS 4.3 POLAR offers specially adapted cables that handle severe cold down to -22°F (-30°C). The MUS 4.3 POLAR is an advanced microprocessor controlled battery charger providing unrivalled performance on lead-acid batteries. The 'Snowflake' option ensures ideal charging performance even in the most extreme cold conditions. Patented Float/Pulse maintenance makes the MUS 4.3 POLAR ideal for long-term maintenance.

- 8 step, fully automatic charging and maintenance process maximizes battery life and performance.
- Compact tough design – splash resistant and dustproof to IP65.
- Patented maintenance charge capabilities.
- Patented desulphation process that extends battery life.
- No sparks, short-circuit proof and reverse-polarity protected for extended trouble-free use.

### TECHNICAL DATA

Voltage	14.4/15.0/15.8V
Charging current Max	4.3A
Charger type	8 step, fully automatic charging cycle
Battery type	12V lead-acid batteries
Battery capacity	1.2-110Ah, maintenance charging up to 160Ah
Insulation	IP65 (splash and dust proof)
Warranty	5 Year Limited Warranty





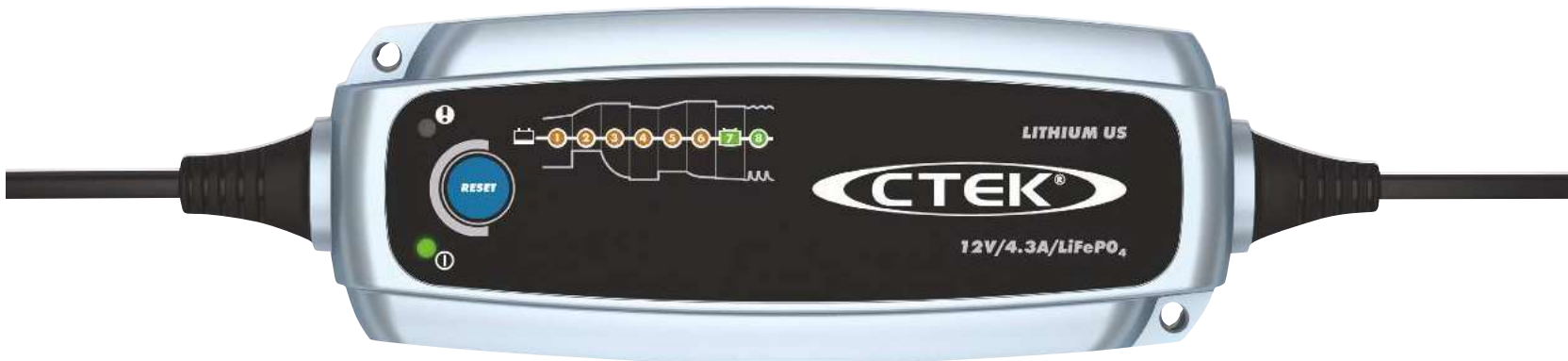
The LITHIUM US is an advanced microprocessor controlled charger specially designed to charge and maintain the cells of Lithium-Iron (LiFePO<sub>4</sub>) batteries – maximizing their performance and lifespan. With up to 4.3A of charge current available the LITHIUM US is extremely flexible and will charge LiFePO<sub>4</sub> batteries from 5Ah to 60Ah. Operation is simple and charging will commence upon connection. No need to disconnect the battery from the vehicle. As the charger commences charging it will automatically connect with the battery’s internal BMS (Battery Management System) and gain access the battery cells for safe and proper charging.

Charging can be restarted manually at any time using the ‘Reset’ button.

- Safe and easy to use.
- Designed specifically for LiFePO<sub>4</sub> (Lithium Iron) batteries.
- Low voltage reset function.
- Checks battery condition at each stage.
- Special lithium battery functionality ensures maximum battery capacity.
- Has BCM (Battery Control Module) Reset Function.

**TECHNICAL DATA**

Voltage	13.8/14.4V
Charging current Max	4.3A
Charger type	8 step, fully automatic Lithium battery charging cycle
Battery type	12V Lithium Iron (LiFePO <sub>4</sub> )
Battery capacity	5-60Ah, maintenance charging up to 120Ah
Insulation	IP65 (splash and dust proof)
Warranty	5 Year Limited Warranty



**1 STEP1 ACCEPT**

Tests if the battery can accept charge. This step prevents charging from proceeding on a worn out or defective battery.

**2 STEP2 BULK**

Charging with maximum current until approximately 90% battery capacity.

**3 STEP3 ABSORPTION**

Charging with declining current to maximize up to 95% battery capacity.

**4 STEP4 ANALYZE**

Tests whether the battery can retain a charge. Batteries that cannot retain a charge may require replacement.

**5 STEP5 COMPLETION**

Final charge with reduced current up to approximately 98% battery capacity.

**6 STEP6 MAXIMIZATION**

Final charge with maximum voltage up to 100% battery capacity.

**7 STEP7 FLOAT**

Keeps battery voltage at maximum level by charging at a constant voltage.

**8 STEP8 PULSE**

Maintaining the battery at 95-100% capacity. The charger monitors the battery voltage and gives a pulse when necessary to keep the battery fully charged.

The MUS 7002 is the perfect “all around” 12V charger. Due to its power and robust features, it is a great charger for the high demand consumer or for the commercial or professional shop environment. The MUS 7002 also has a Supply Mode which supplies clean and constant power, allowing the battery to be disconnected from the vehicle without losing important electronic data stored in computer memory or for providing a constant power source for times when you may need power while providing certain vehicle services or component testing while the engine is not running.

- Charges a broad range of batteries from 14Ah up to 150Ah. Maintains larger batteries up to 225Ah.
- Provides a Battery Diagnosis feature
- Supply program – can be used as a 12V power source for light service needs and to protect electrical settings when a battery needs to be changed out.
- Cold weather program, for charging in cold conditions and for AGM batteries.
- RECOND program – special charge program can be added to charging process to revive deeply discharged and potentially stratified wet batteries.
- Splash resistant and dust-proof to IP65 standards.



**TECHNICAL DATA**

Voltage	14.4/14.7/15.8/13.6V
Charging current Max	7A
Charger type	8 step, fully automatic charging cycle
Battery type	12V lead-acid batteries
Battery capacity	14–150Ah, maintenance charging up to 225Ah
Insulation	IP65 (splash and dust proof)
Warranty	5 Year Limited Warranty
Certifications	Meets ignition protection test requirements of the US Coast Guard stated in Title CFR 183.410

The US RACING is a charger that offers state of the art technology that was previously only found in CTEK’s 12V product range. The charger is perfect for your 16V racecar or audio application. The same quality and reliability you have trusted from CTEK for years is now available for your 12V/16V applications.

The US RACING charger is light-weight and compact yet extremely robust. With settings for 12V and 16V WET or AGM, this charger will provide fully automatic charging and can be left attached for months without the worry of overcharging.

- Fully automatic charging and maintenance in 7 steps maximizes battery life and performance
- Featuring recond and supply mode
- Water-resistant so that the solution could be taken to the problem even if it rains or snows
- Patented maintenance charge for a unique combination of maximized life and performance
- Patented desulphation that extends the battery life
- No sparks, short-circuit proof and reverse-polarity protected for untroubled usage



**TECHNICAL DATA**

Charging voltage	12V WET 14.4V, AGM 14.7V/ 16V WET 19.2V, AGM 19.6V
Charging current	Max 7A 12V, max 5A 16V
Charger type	Seven step, fully automatic charging cycle
Battery type	12V and 16V lead-acid batteries
Battery capacity	12V WET, AGM 14–225Ah/ 16V WET, AGM 10–160Ah
Insulation	IP65 (splash and dust proof)
Warranty	2 year warranty



# PROFESSIONAL BATTERY CHARGERS

*Battery support during service, diagnostics and flashing service requires a clean, safe and stable power supply. The numerous battery types found in today's vehicles require safe and effective charging - and sometimes recovery and reconditioning service. CTEK PRO chargers provide various services designed to maximize shop efficiency and profits by offering safe, simple to use and effective solutions for a broad range of workshop vehicle services ranging from simple battery replacement data support to power support for flash reprogramming to electrical support for vehicle alignment and proactive or reactive battery recharging service programs.*

# MUS 25000



PART NO. 56-674

The MUS 25000 is a professional 12V charger. It is ideal for use in hi demand consumer, automotive, heavy duty truck and commercial vehicle workshops and on recreational vehicles and boats. The MUS 25000 offers features such as battery diagnosis that determines if a battery can receive and retain a charge, a special reconditioning function (RECOND) that restores stratified and deeply discharged wet batteries, unique maintenance charging process, and a temperature sensor for optimized charging in varying hot and cold weather conditions. It also has a Supply mode which provides clean and constant power to support vehicle diagnostic services.

- On-Board capable for permanent mounting as an integrated charging solution in commercial equipment, vehicle, RV or marine application.
- Charges and maintains batteries from 40Ah up to 500Ah.
- Supply program – can be used as a 12V power source and to protect electrical settings stored in memory or provide battery support during diagnostics up to 25A.
- Built-in temperature sensor.
- Reconditioning program.



### TECHNICAL DATA

Charging voltage	14.4/15.8/13.6V
Charging current	Max 25A
Charger type	8 step, fully automatic charging cycle
Battery type	12V lead-acid batteries
Battery capacity	40-500Ah, maintenance charging up to 500Ah
Insulation	IP44 (approved for outdoor use)
Warranty	2 Year Limited Warranty
Certifications	Meets ignition protection test requirements of the US Coast Guard stated in Title CFR 183.410

# MXS 25EC



PART NO. 40-128

The MXS 25EC is light, small and highly portable. It offers fast and efficient charging and is ideal for use in any automotive, heavy duty truck and commercial vehicle workshop. The MXS 25EC is equipped with all necessary features and functions to solve a broad range of battery related service needs. It offers features such as battery diagnosis that determines if a battery can receive and retain a charge, a special reconditioning function (RECOND) that restores stratified and deeply discharged wet batteries and a temperature sensor for optimized charging in varying hot and cold weather conditions. It also has a Supply mode which provides clean and constant power to support vehicle diagnostic services and allows the battery to be disconnected from the vehicle without losing important electronic data stored in computer memory.

*The MXS 25EC is a versatile and essential piece of equipment for the modern professional workshop. The MXS 25EC comes with extended 19.8' heavy duty output cables and wall hanger and bracket for ease of use and extraordinary versatility that is unrivaled in the marketplace.*

- Safe, portable and easy to use.
- Charges and maintains a broad range of batteries from 40Ah up to 500Ah.
- Supply program – can be used as a clean and stable 12V power source for re-flashing vehicle ECM's and a wide range of vehicle diagnostic services and battery support function for computer memory support during battery removal and/or replacement.
- Built-in temperature sensor.
- Supplied with long 19.8' cables
- Includes wall hanger, wall bracket and hardware (part # 56-314).



### TECHNICAL DATA

Voltage	14.4/15.8/13.6V
Charging current	Max 25A
Charger type	8 step, fully automatic charging cycle
Battery type	12V lead-acid batteries
Battery capacity	40-500Ah up to 500Ah for maintenance
Insulation	IP44 (outdoor use)
Warranty	2 Year Limited Warranty



# BATTERY ANALYZER

PART NO. 56-925

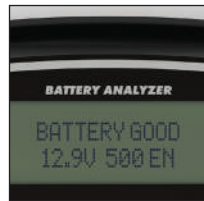
The CTEK BATTERY ANALYZER tests standard Wet, Maintenance Free, Ca/Ca lead acid battery condition with a high level of accuracy. Easy to use. FAST, SAFE and SIMPLE, it provides easy to understand results. Operating voltage range is 8-15V with a test range of 200-1200 CCA's (SAE). Simply connect the clamps to the battery and follow the step by step instructions on the display. The easy to read display gives clear information on the condition of your 12V lead-acid battery and advises what action is required. With no need to disconnect the battery from the vehicle, the patented technology is safe for the user and vehicle electronics. It is reverse polarity protected, creates no battery loads, heat or sparks.

**EASY TO USE** — simply attach to battery (no need to disconnect battery from vehicle) and follow the on screen instructions.

**FAST, ACCURATE RESULTS** — tests the battery in seconds providing an instant on screen result which advises what action should be taken.

**SAFE - NO HEAT OR SPARKS** — patented technology provides fast, accurate results without placing load on the battery and generates no potentially dangerous heat or sparks.

**FOR 12V LEAD-ACID BATTERIES** — perform an accurate test on standard Wet, Maintenance Free, Ca/Ca, Starting and Deep Cycle lead acid battery types.



## TECHNICAL DATA

Type of analyzer	Conductance
Type of battery analyzed	12V lead-acid starter batteries
Testing voltage	Min. 8V, Max. 15V
Resolution (V)	0.1V
Accuracy (V)	± 0.1V
Test Range	200-1 200 CCA (SAE)
Resolution	25 CCA (SAE)
Accuracy	± 25 CCA (SAE)
Warranty	2 Year Limited Warranty





# PRO BATTERY TESTER

PART NO. 40-209

Complete with integrated printer, it's now easier than ever to determine and present the current state of a battery and electrical system with the CTEK PRO Battery Tester. The PRO Battery Tester performs FAST, SAFE, SIMPLE and ACCURATE battery and system tests in only seconds without heat, sparks or user interpretation. The results can then be printed and reviewed immediately with customers for added impact to any service facilities preventative maintenance routines for improved customer service. The CTEK PRO Battery Tester uses proven and patented Midtronics battery testing technology and features a 2-year warranty.

## FEATURES

- Integrated printer provides immediate results to review with your customer
- User defined custom printout header
- Tests 12V batteries and electrical systems for cars and light trucks
- Tests starting and charging system voltage and displays results
- Bad cell detection
- Reverse polarity protection
- Tests discharged batteries down to 1 volt
- Multiple rating system capability (CCA, DIN, EN, IEC, SAE)
- Tester multiple lead acid battery chemistries (Flooded, AGM and GEL)
- 19 Languages

## TECHNICAL DATA

Display	LCD text display
Operating temperature	32° to 120° F (0° to 50° C)
Test range	100-900 CCA
	100-550 DIN
	100-900 EN
	100-550 IEC
	100-900 SAE
Built-in printer	Powered by battery under test
Voltage range	Tests 12V batteries down to 1 volt
Cable length	21 inches (533.4mm)
Power requirements	Uses power of battery under test or 9V battery
Voltmeter	1-16 Vdc, +/- 0.05 Vdc
Housing material	Acid resistant ABS Plastic
Dimensions	9 x 4 x 2.5 inches (230 x 102 x 65mm)
Weight	1.1 Lbs (499 Grams)





# INTEGRATED SOLUTIONS

*Effective Battery Management has become more important than ever. The demand for integrated (on-board) battery power and charging solutions to meet and exceed the ever-increasing needs for more power, space saving and significant extension of battery performance and life have become a necessity.*

*Whether it's a fixed on-board installation or a portable "connect and forget" charging or maintenance option, there is a CTEK battery charging solution for you. Our range of 12V chargers will deliver a complete battery care solution and maximize battery performance and extend battery life.*





## D250SA

PART NO. 40-186

The D250SA is a fully automatic, 5 step charger that supplies up to 20A of power to any 12V lead-acid service battery from 40-300Ah, including Wet, EFB, MF, Ca/Ca, AGM and Gel. It has selectable charge voltages for AGM batteries and can use power through its dual input from alternator, solar panel and wind power. When the service battery is fully charged, the D250SA will automatically redirect maintenance charge power to the starter battery. The D250SA can maintain a stable output up to 20A to vehicles fitted with smart ECU controlled alternators and also has a temperature sensor for optimised charging, regardless of weather conditions.

### FEATURES

- 20A FULLY AUTOMATIC TEMPERATURE COMPENSATED CHARGING FOR BATTERIES FROM 40-300AH WHILE YOU'RE ON THE MOVE
- DUAL INPUT (SOLAR AND ALTERNATOR IN PARALLEL)
- SMART ALTERNATOR COMPATIBLE
- BATTERY SEPARATION REPLACING DIODES AND VSR RELAYS
- SOLAR PANEL REGULATOR WITH MAXIMUM POWER POINT TRACKING (MPPT)

### TECHNICAL DATA

Input	11.5-23V, 25A
Output	Max 14.4V (14.7V in AGM), 20A
Back current drain	Less than 1Ah/month
Ambient temperature	-20°C to +50°C (-4°F to +122°F)
Battery types	All types of 12V lead-acid batteries (WET, EFB, Ca/Ca, MF, AGM and GEL)
Battery capacity	40-300Ah
Dimensions	192 x 110 x 65mm (L x W x H)
Insulation class	IP65 (splash and dust proof)

## SMARTPASS 120

PART NO. 40-185

Smartpass 120 is a 120A Power Management Solution which distributes, controls and maximises the available energy from your alternator to power service batteries and consumers. SMARTPASS 120 handles all 12V batteries between 28-800Ah. The Smartpass 120's Battery Guard function ensures that critical equipment such as radio, emergency lights and navigation systems always have power and take priority when the voltage on the service battery is low disconnecting non-critical consumers. The unit's Battery Guard will protect your service battery from total discharge and built in over temperature protection reduces charge current before the battery temperature gets too high. SMARTPASS 120 is compatible with the D250SA 20A on board charger.

### FEATURES

- BATTERY SEPARATION ELIMINATES DIODES AND VSR RELAYS
- DELIVERS 120A FOR QUICK RECHARGE OF BATTERIES 28-500AH
- COMPATIBLE WITH D250SA FOR THE ULTIMATE 140A POWER MANAGEMENT SOLUTION.
- PRIORITIZING CRITICAL CONSUMERS AND SUPPLIES CONSUMERS DIRECTLY FROM THE ALTERNATOR
- EMERGENCY PRIMARY BATTERY START ASSISTANCE FUNCTION

### TECHNICAL DATA

Input	11.5-23V, Max 120A (350A temporarily for 10 seconds)
Output	Max. 14.4V, 120A (350A temporarily for 10 seconds)
Back current drain	Less than 7Ah/month
Ambient temperature	-20°C to +50°C (-4°F to +122°F)
Battery types	All types of 12V lead-acid batteries (WET, EFB, Ca/Ca, MF, AGM and GEL)
Battery capacity	28-800Ah
Dimensions	192 x 110 x 65mm (L x W x H)
Insulation class	IP65 (splash and dust proof)





## 20A OFF GRID CHARGING SYSTEM

PART NO. 40-256

CTEK has created a 20A, on-board charging solution for smaller power requirements. We have combined the CTEK D250SA on-board charger with a new CTEK Battery Monitor to give you full knowledge and control of your available battery power.

This CTEK Battery Monitor shows you how long before your service battery is fully discharged or fully recharged. Take the guess-work out of battery power, so you can sit back and relax with a clear picture of how much power you have left in your service battery. Installing these products into your 4WD, camper trailer, RV or boat will give ultimate performance, power and lifespan for batteries systems with smaller power requirements.

20A OFF GRID CHARGING SYSTEM INCLUDES  
 1 - Part# 40-186 - D250SA - 20A on-board charger  
 1 - CTEK Battery Monitor (not available separately)

## 140A OFF ROAD CHARGING SYSTEM

PART NO. 40-257

CTEK has created the ultimate 12V on-board power package for your vehicle(s). We have packaged the CTEK D250S Dual Smart Charger and Smartpass along with a NEW CTEK DIGITAL POWER MONITOR that gives you full knowledge and control of your available battery power.

This new CTEK battery power monitor shows you how much "Time to Go" before your secondary service battery is fully discharged or fully recharged. With this system you can sit back and relax because you know how long your battery will last.

You can now have the ultimate high demand dual battery power management system all in one package. Installing these products into your 4WD, camper trailer, RV or boat will give your batteries the ultimate performance, power and lifespan. CTEK enables you to extend your enjoyment of the outdoors!

140A OFF ROAD CHARGING SYSTEM INCLUDES  
 1 - Part# 40-186 - D250SA - 20A on-board charger  
 1 - Part# 40-185 - Smartpass 120 Power Management System  
 1 - CTEK Battery Monitor (not available separately)





# D250TS (24V)

PART NO. 56-740

The D250TS is a fully automatic battery charger, battery separator, 12V converter and an equalizer for 24V batteries and battery banks. Perfect for heavy vehicles, recreational vehicles and boats. The D250TS is a fully automatic 4 step charger that supplies 10A to 24V battery packs with 28-200Ah capacity. The charger is IP65 certified and protects vehicle electronics. It is suitable for all types of lead-acid batteries (Wet, MF, Gel, and AGM).

- Automatic battery separation
- 10 day float/pulse maintenance for maximum charge level
- 12V Power Tap
- Tested to major OE manufacturers High vibration design requirements
- High efficiency design

### TECHNICAL DATA

Input Voltage	14-30V
Charge Voltage	28.8V
Charging current	Max 10A
Charger type	Four step, fully automatic DC/DC charger
Battery type	24V lead-acid batteries and series connected 12V battery packs
Battery capacity	28-200Ah
Insulation	IP65 (splash and dust proof)
Warranty	2 Year Limited Warranty
Certifications	Meets ignition protection test requirements of the US Coast Guard stated in Title CFR 183.410



# ACCESSORIES

*All CTEK products are designed and developed to be as simple as possible to use. Our accessories are designed work with CTEK Chargers to promote safety, simplicity, enhanced usability and add complementary functionality to our battery charging and maintenance products. All CTEK chargers with output up to 7A are supplied with quick connector, COMFORT CONNECT. There are several smart accessories for our quick connector, COMFORT CONNECT, to make battery care even easier. Connect with our smart accessories!*



# COMFORT CONNECT



## COMFORT CONNECT - Eyelet

Comfort Connect-Eyelet is a handy accessory designed for permanent installation with a direct connection to the battery. It enables you to charge batteries that are in hard to reach places or where using clamps is inconvenient or impossible.

Comfort Connect-Eyelet is splash proof and dust proof. Comes packaged with all CTEK chargers up to 7A and is available in eyelet 3 size versions M6, M8 and M10. 15.7 inch cable length.

Part no. 56-260 Eyelet M6 Practical for all power sports battery applications.

Part no. 56-261 Eyelet M8 Practical for all automotive battery applications.

Part no. 56-329 Eyelet M10 Practical for all automotive and commercial or marine battery applications.



## COMFORT CONNECT - Cig Plug

Comfort Connect - Cig Plug is an easy to fit adapter that allows charging from a CTEK charger through a 12V cigarette lighter or accessory socket. 15.7 inch cable length. Compatible with all CTEK chargers up to 7A.

*Note: the cig plug/accessory socket must be "live" in the key off position to facilitate charging*

Part no. 56-263



## COMFORT CONNECT - Cig Socket

Comfort Connect - Cig Socket is a useful accessory that increases the usage of the CTEK Comfort Connect battery connector. When the COMFORT CONNECT - Cig Socket has been connected, it allows you to provide power to and/or charge your GPS, mobile phones, heated clothing, etc. 3 ft. cable length.

Part no. 56-573



## COMFORT CONNECT - 8.2 ft Extension Cable

Comfort Connect - Extension Cable is a handy extension cable that allows any CTEK charger output lead to be extended by an additional 8.2 ft. for extended ease of use with all CTEK accessories such as clamps or quick connectors (Comfort Connect). Handy when vehicle or battery is further away from the AC outlet than fitted output cable allows. 8.2 Ft cable length.

Part no. 56-304

## COMFORT CONNECT

All CTEK chargers with output of up to 7A are supplied with our custom quick connector, COMFORT CONNECT. There are several other smart accessories that are designed to integrate with COMFORT CONNECT, to make battery care easier.



## COMFORT CONNECT - Plug Adapter

Comfort Connect-Plug Adapter allows older (pre 2008) models of CTEK chargers to be compatible with the 'new generation' accessories. Just connect to the CTEK charger fitted with the 'old style' connector and the unit immediately becomes ready for use with all of our modern Comfort Connect and Comfort Indicator accessories. Cable length 4.7 inches.

Part no. 56-689

# COMFORT INDICATOR



## COMFORT INDICATOR - Eyelet

Comfort Indicator - Eyelet designed for permanent installation with a direct connection to the battery. For use with CTEK chargers, it enables you to charge batteries that are in hard to reach places or where using clamps is inconvenient or impossible. Should charging be required, plug in your CTEK charger and charge the battery. Extended cable length 19.6 inches.

Part no. 56-629 Eyelet M6 - Practical for all PowerSports battery applications.

Part no. 56-382 Eyelet M8 - Practical for all automotive battery applications.

Part no. 56-383 Eyelet M8 - Bulk pack of 50



## COMFORT INDICATOR - Cig Plug

Comfort Indicator-Cig Plug is a combined quick connector and battery voltage indicator. Perfect for checking battery status and charging the battery through the vehicle 12V accessory socket. Suitable for all 12V CTEK chargers up to 7A. Comfort Indicator - Cig Plug is a universal model that fits both 12mm and 21mm sockets.

*Note: the cig plug / accessory socket must be "live" to power LED's and/or to facilitate charging*

Part no. 56-870

## COMFORT INDICATOR

Use of the CTEK Comfort Indicator is a simple way to connect and monitor the charge voltage of your battery. All Comfort Indicator products utilize a simple 'traffic light' system to show the battery's charge level so that you can know when to charge your battery to avoid no start situations and helps you to keep your battery charged to extend battery life.

**RED** means the battery charge is below 12.4V and it's definitely time to charge your battery NOW.

**YELLOW** means that the battery charge is between 12.4 and 12.65V and it's time to start thinking about charging your battery

**GREEN** means that your battery charge is at 12.65V or above and is in fine shape, no need to charge.

*Note: the most accurate battery voltage reading comes about 2-3 hours after you have used your vehicle and the Comfort Indicator will not recognize battery voltage under 3V.*



## COMFORT INDICATOR - Clamp

Comfort Indicator - Clamp easy to use with multiple vehicles, ideal for workshops and vehicle showrooms. Should a need for charging be indicated, simply remove the cap from the unit and a compatible CTEK charger can be plugged in to restore the battery to fully charged status. Cable length 59 inches for ease of use.

Part no. 56-384



## COMFORT INDICATOR - Pigtail

Comfort Indicator - Pigtail offers a way to adapt the commonly used two pin SAE connector cable for use with CTEK Comfort Connect products.

Part no. 56-564



## COMFORT INDICATOR - Panel

Comfort Indicator - Panel comes in 3 different variations for ease of application and is designed to be mounted into any flat surface by creating a rectangular access hole (location/sizing template included).

*Rectangular mounting hole size - 21mm x 36.8mm (Large rocker switch panel compatible).*

Available in two cable lengths and Flat Pin connector version for custom applications.

Part no. 56-380 Cable length 4.9 ft., eyelet size M8

Part no. 56-531 Cable length 10.8 ft., eyelet size M8

Part no. 56-562 Flat Pin connectors, male spade connector size - 6.3 x 0.8mm

# ACCESSORIES

## CTEK BUMPER Bumper US 0.8 Bumper MUS 4.3, MXS 5.0 Bumper MUS 7002

CTEK Bumper helps protect the charger and vehicle surfaces from bumps and scratches. Adds extra grip on slippery surfaces. Made of durable silicon rubber material. The CTEK Bumper fits snugly around the body of your CTEK charger.



Part no(s).  
40-057 - 0.8 Black  
(Fits 56-191 and 56-865)

56-915 - 4.3 Black  
(Fits: 56-158-1, 56-864, 56-956,  
56-958, 56-959 and 40-206)

40-058 - MUS 7002 Black  
(Fits: 56-353 and 56-830)



CTEK BUMPER US 0.8



CTEK BUMPER MUS 4.3, MXS 5.0



CTEK BUMPER MUS 7002



## CTEK MOUNTING BRACKET

Mounting Bracket is versatile, safe and easy for practical charger, cable and clamp storage. Designed for all CTEK chargers in the 3.3A to 4.3A range of products (56-158-1, 56-864, 56-956, 56-958 and 56-959)

- Practical use and storage of charger and storage of charger output clips and cables
- Open frame design allows easy access to charger functions.

Part no. 40-006



## PRO ACCESSORIES



### CLAMP SHELLS - Red & Black

Replacement positive and negative terminal clamp shell set.

Suitable for:  
MUS 25000 and MXS 25EC

Part no. 40-147



### WALL HANGER 300

CTEK Wall Hanger Pro has been specially designed to allow the MUS25000 and MXS25EC chargers to be mounted in an easy "on-off" fashion on a wall, vehicle lift post or hung on a vehicle door or window. The wall hanger has rubber feet to avoid scratching vehicle paintwork and includes a hook for safely and conveniently storing output cables and clips.

The Kit includes:

- A charger mounting plate that attaches directly to the back of the charger.
- A wall mounting plate for wall / surface mounting
- Screws and rubber feet

Suitable for use with:  
MUS 25000 and MXS 25EC

Part no. 56-314



### TROLLEY PRO

CTEK TROLLEY PRO is a mobile workstation that can organize and carry a wide range of CTEK charging equipment and battery testers, lap-tops etc. PLUS is strong enough to easily carry a battery on the lower shelf for jump starting as needed. With a 'go anywhere' design TROLLEY PRO features four wheels - two with brakes - for easy shop maneuverability and security. Hooks are included for proper storage of cables and clips.

- Versatile test station for chargers, testers and batteries.
- Perfect for Flash programming / updating.
- Pull out mouse shelf for laptop use
- Pre drilled lower panel to mount single or multiple CTEK PRO Chargers.
- Robust steel construction with four wheels.
- Durable black, powder coated finish.

Suitable for use with: MUS 25000 and MXS 25EC

Part no. 56-604



### BUMPER 300

CTEK Bumper 300 helps protect your CTEK charger and vehicle from bumps and scratches and gives extra grip on slippery surfaces. Made of durable silicon rubber material, the CTEK BUMPER 300 fits snugly around the body of your CTEK charger. Includes a robust handle that is integrated around your charger under the bumper.

Fits CTEK chargers MUS 25000 and MXS 25EC  
2 Year Limited Warranty

Part no. 40-060

# CHARGER GUIDE

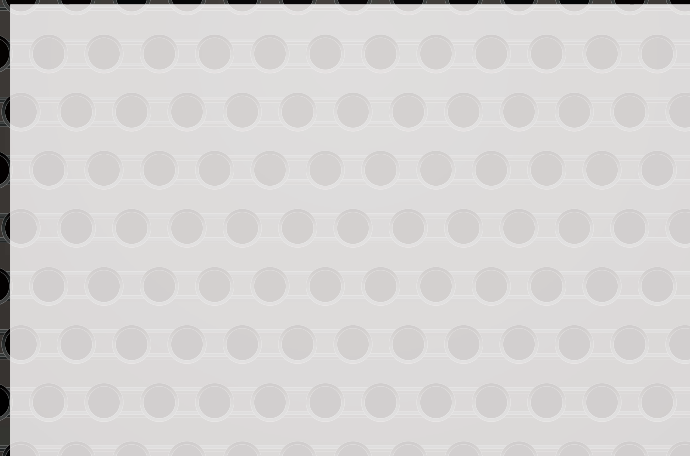
WWW.CTEK.COM

Voltage	6V		12V							LiFePO <sub>4</sub>
Product										
Article No.	56-191	56-865	40-206	40-255	56-959	56-958	56-353	56-674	40-128	56-926
Description	0.8A	0.8A	4.3A	4.3A	4.3A	4.3A	7A	25A	25A	4.3A
Charging step	4-step	6-step	8-step	8-step	8-step	8-step	8-step	8-step	8-step	8-step
Warranty	5 year	5 year	5 year	5 year	5 year	5 year	5 year	2 year	2 year	5 year
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● GOOD ● BEST







**CTEK** | **MAXIMIZING  
BATTERY  
PERFORMANCE**

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