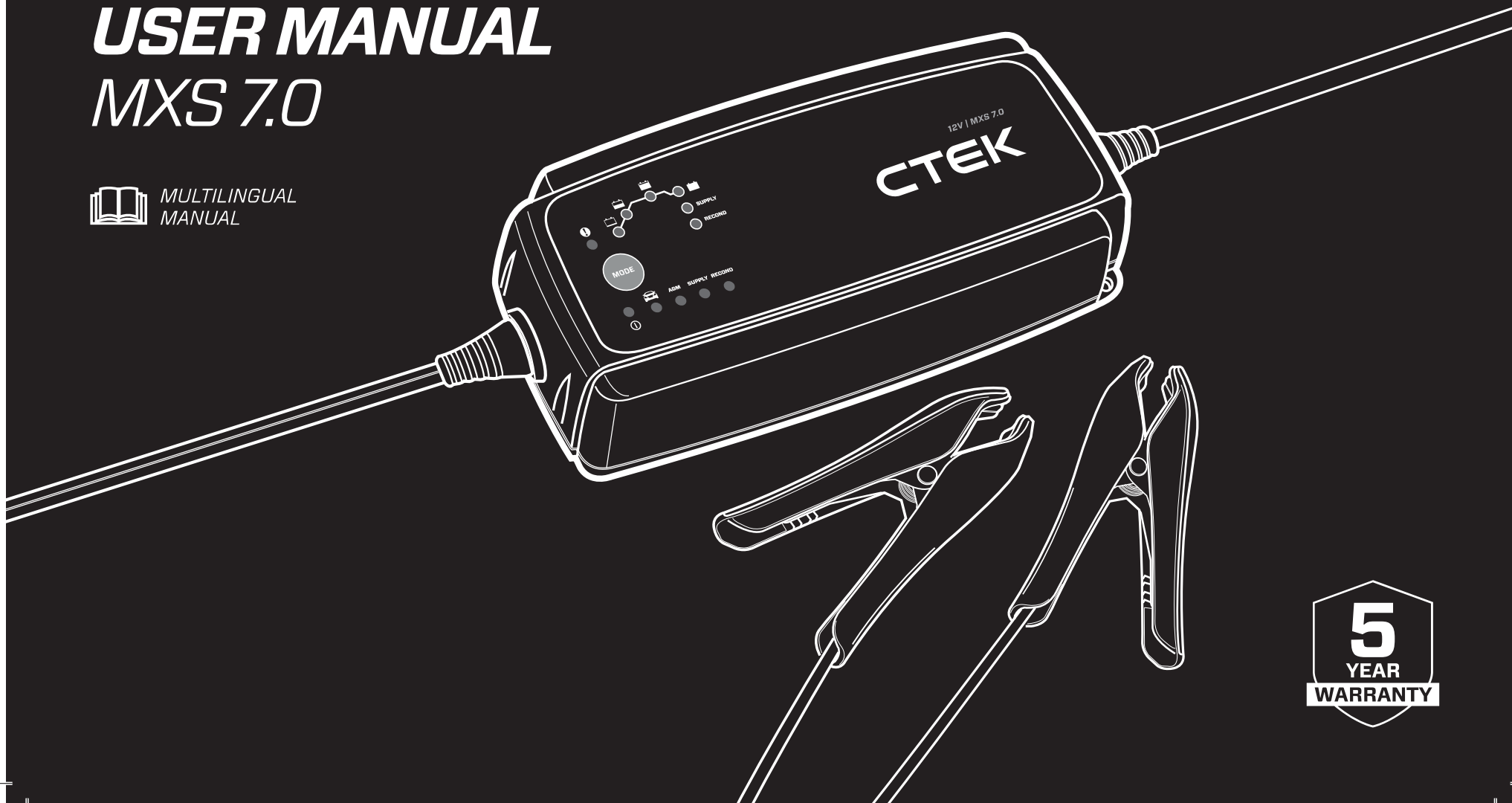


# CTEK

## *USER MANUAL* *MXS 7.0*



MULTILINGUAL  
MANUAL





## SAFETY & RECYCLING

### READ ALL OF THE SAFETY AND USER INSTRUCTIONS BEFORE USE

- ⚠ During charging, batteries can emit explosive gases. Prevent sparks close to the battery. Provide for good ventilation.
- ⚠ Ensure the mains cable is disconnected from the wall outlet before connecting or disconnecting the battery clamps to/from the battery.
- ⚠ The charger is only designed for charging batteries according to the technical specification. Do not use the charger for any other purpose.
- ⚠ Always follow battery manufacturers' user and safety recommendations
- ⚠ The battery terminal that is not connected to the chassis has to be connected first. The other connection is to be made to the chassis, remote from the battery and fuel line. The battery charger is then to be connected to the supply mains; After charging, disconnect the battery charger from the supply mains, then remove the chassis connection and then the battery connection.
- ⚠ Never try to charge non-rechargeable batteries.
- ⚠ Never place the charger on top of the battery or cover the charger when charging
- ⚠ Never charge a frozen or damaged battery.
- ⚠ Never use a charger with damaged cables. Ensure that the cables have not been damaged by hot surfaces, sharp edges or in any other way
- ⚠ A damaged cable must be replaced by a CTEK representative using an original part supplied by CTEK. A detachable cable can be replaced by the user using an original part supplied by CTEK.
- ⚠ Never extend the charger cable to a total length of more than 5.0m as this can cause electromagnetic interference. Use only original parts supplied by CTEK.
- ⚠ Ensure that the cabling does not jam or comes into contact with hot surfaces or sharp edges.
- ⚠ Connection to the mains supply must be in accordance with the national regulations for electrical installations
- ⚠ Chargers with grounded mains plug must only be connected to a grounded socket outlet
- ⚠ Chargers with IP-class lower than IPX4 are designed for indoor use. Do not expose to rain and snow. See technical specification.
- ⚠ Always check that the charger has switched to '■' before leaving the charger unattended and connected for long periods. If the charger has not switched to '■' within 45 hours, this is an indication of an error. Manually disconnect the charger.
- ⚠ Batteries consume water during use and charging (this is for flooded only, and not AGM). For batteries where water can be added, the water level should be checked regularly. If the water level is low add distilled water.
- ⚠ This text is applicable in European Countries: This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children must not play with the appliance. Cleaning and user maintenance must not be made by children without supervision.
- ⚠ This text is applicable out-side European Countries: This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

### DISPOSING OF THE DEVICE

#### YOUR OBLIGATION AS AN END USER



Products marked with a crossed-out wheeled bin symbol and a single black bar underneath, contain parts that must be handled in compliance with the WEEE Directive (2012/19/EU). The appliance may therefore only be collected and taken back separately from unsorted municipal waste, i.e. it must not be disposed of with household waste. The appliance can, for example, be taken to a municipal collection point or, where applicable, to a distributor.

This also applies to all components, sub assemblies, and consumables of the old appliance to be disposed of.

Before the old appliance can be disposed of, all old batteries and accumulators that are not enclosed in the old appliance must be separated from the old appliance. The same applies to lamps that can be removed from the old appliance without being destroyed. The end user is also responsible for deleting personal data from the old appliance.

#### NOTES ON RECYCLING



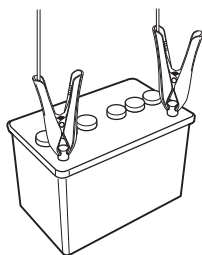
Help to recycle all materials marked with this symbol. Do not dispose of such materials, especially packaging, in the household waste but in the recycling containers provided or in the appropriate local collection systems.

Recycle electrical and electronic equipment for environmental and health protection.

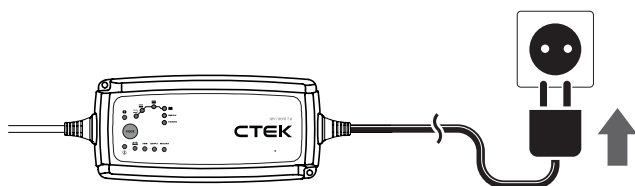


## GETTING STARTED

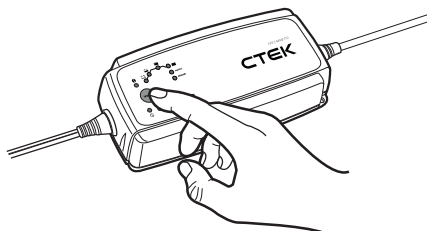
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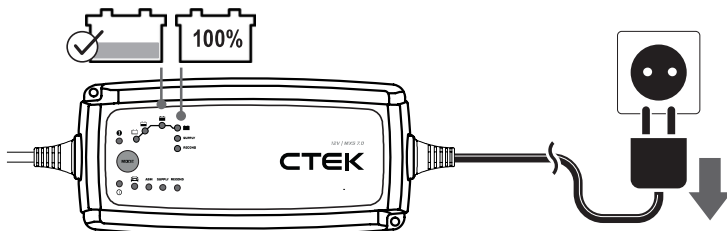
2



3



4



Please read all of the instructions detailed in this user manual carefully before use.

1

Connect the battery clamps to the 12V battery .

**Note!** Refer to the vehicle / battery manufacturers guide for terminal charging points.

2

Connect the charger to the wall socket.

The power indicator will illuminate green to indicate that the mains cable is connected.

If the battery clamps are incorrectly connected, the error indicator will illuminate red.

3



**NOTE!** If the battery clamps are incorrectly connected, the reverse polarity protection will ensure that the battery and charger are not damaged.

Press the MODE-button to select charging program.

Please see the next page for more detailed instructions.

4

Follow the indication lamps through the charging process.

The battery is ready to start the engine when is lit.

The battery is fully charged when is lit.

Stop charging at any time by disconnecting the mains cable from the wall socket.

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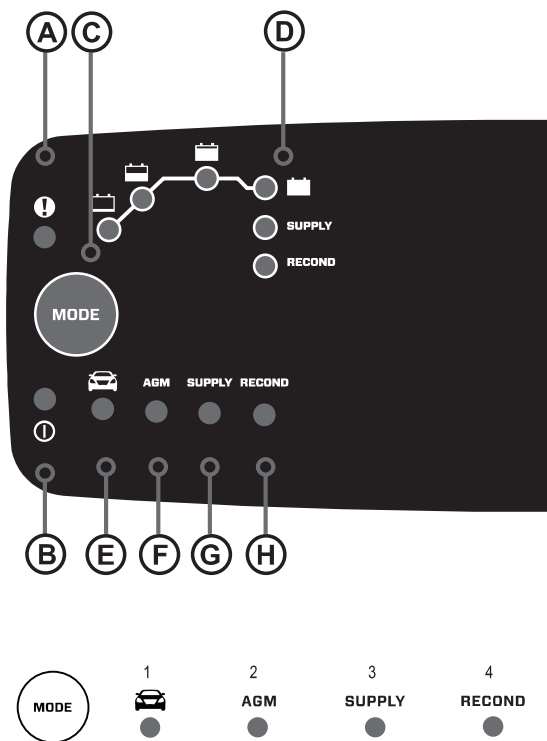
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## INTERFACE

Please scan the QR code for details on what each indicator light means and the charging curve.



**A. ERROR INDICATOR** - Illuminates RED when an issue has been detected.

**B. POWER INDICATOR** - Illuminates GREEN when the Charger is connected to a power outlet.

**C. MODE BUTTON** - This allows you to cycle through the required program to suit your battery. Settings are made by pressing the MODE-button. After **two seconds** the charger activates the selected program. The selected program will be restarted next time the charger is connected.

**D. STATUS INDICATORS** - The 8 step programme tests the battery condition and revives, charges and maintains to ensure maximum battery life and performance.

**E. - 7A charge program for medium sized vehicles.**

**F. AGM** - 7A charge program from AGM batteries.

**G. SUPPLY** - Use as 12V power supply or use for float maintenance charging when it is necessary to keep the battery at 100% capacity (13.6V/7A)

**WARNING!** The spark protection on the battery charger is disabled during SUPPLY program.

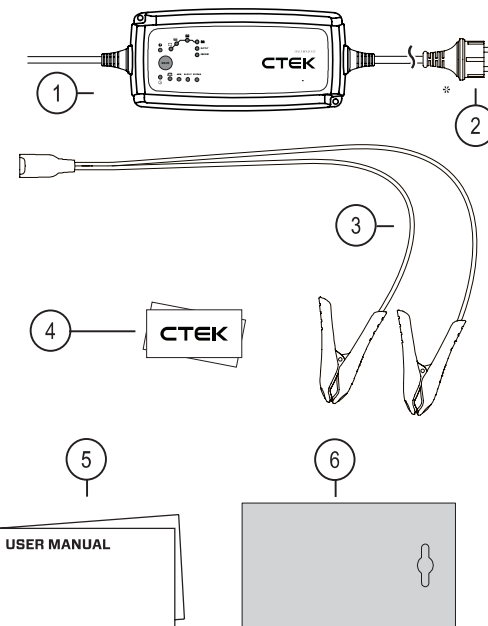
**H. RECOND** - charge program for reconditioning of deeply discharged batteries.

**WARNING!** Do not apply RECOND mode on the following types of batteries: GEL or AGM.

Please scan the QR CODE for all compatible accessories for the MXS 7.0



## WHAT'S IN THE BOX



| NO. | ITEM               | PACKAGING MATERIAL USED <sup>**</sup> | CODE OF MATERIAL | MATERIAL CATEGORY <sup>**</sup> |
|-----|--------------------|---------------------------------------|------------------|---------------------------------|
| 1   | Battery charger    | Transparent film                      | PP5              | Plastics                        |
| 2   | Mains Adapter      | Cable tie                             | 92               | Composite                       |
| 3   | Charge clamps      | Cable tie                             | 92               | Composite                       |
| 4   | Temperature Sensor | Cable tie                             | 92               | Composite                       |
| 5   | CTEK sticker       | Paper                                 | PAP22            | Paper                           |
| 6   | User manual        | Paper                                 | PAP22            | Paper                           |
| 7   | Gift box           | Cardboard                             | PAP20            | Paper                           |

<sup>\*</sup> Supply plugs may differ to suit your wall socket

<sup>\*\*</sup> Packaging elements may vary subject to the model

<sup>\*\*\*</sup> Check the provision of your municipality for the management of waste



## TROUBLESHOOTING

EN

| QUESTION                                                           |  | ANSWER                                                                                                                                                                                                                  | ACTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| What does it mean when the 'ERROR' indicator illuminated?          |  | <p>Check the chargers positive clamp is connected to the batterys positive pole.</p> <p>Ensure the charger is connected to a 12V battery</p> <p>The charger has detected an issue or charging has been interrupted.</p> | <p>Restart the charger by pressing the MODE-button. If charging is still being interrupted, the battery...</p> <ul style="list-style-type: none"><li> ...is seriously sulphated and may need to be replaced.</li><li> ...cannot accept charge and may need to be replaced.</li><li> ...cannot keep charge and may need to be replaced.</li></ul> |
| Why does the Power light illuminate and then flash?                |  | <p>If the charger isnt connected to a battery after 2 minutes of being connected to the mains outlet, it will enter 'energy save mode'.</p>                                                                             | <p>Connect the charger to a battery or disconnect from the mains outlet to stop the charger entering 'energy save mode'.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| What type of batteries can MXS 7.0 charge?                         |  | <p>The MXS 7.0 charges 12V lead-acid batteries.</p>                                                                                                                                                                     | <p>See 'TECHNICAL SPECIFICATION' for further information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Does the MXS 7.0 work with other CTEK Accessories?                 |  | <p>Yes</p>                                                                                                                                                                                                              | <p>The MXS 7.0 has several accessories available online.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Do I need to register my charger to have the 5 year warranty time? |  | <p>No.</p>                                                                                                                                                                                                              | <p>Should any issues arise, please contact you supplier. If the supplier is unable to help, please contact CTEK directly.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |



## TECHNICAL SPECIFICATION & SUPPORT

|                               |                                                                                                                                                     |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| MODEL NUMBER                  | 1053                                                                                                                                                |
| INPUT                         | 220-240VAC, 50-60 Hz                                                                                                                                |
| CHARGING VOLTAGE              |  14.4V, <b>AGM</b> 14.7V, <b>RECOND</b> 15.8V, <b>SUPPLY</b> 13.6V |
| MIN BATTERY VOLTAGE           | 2.0V                                                                                                                                                |
| CHARGE CURRENT                | 7A Max                                                                                                                                              |
| CURRENT, MAINS                | 1.2Arms (at full charging current)                                                                                                                  |
| BACK CURRENT DRAIN*           | <1Ah/month                                                                                                                                          |
| RIPPLE**                      | Less than 4%                                                                                                                                        |
| AMBIENT OPERATING TEMPERATURE | -20°C to +50°C, output power is reduced automatically at high temperatures                                                                          |
| CHARGER TYPE                  | 8 step, fully automatic charging cycle                                                                                                              |
| BATTERY TYPES                 | All types of 12V lead-acid batteries (WET, MF, Ca/Ca, EFB, AGM and GEL)                                                                             |
| BATTERY CAPACITY              | 14-150Ah                                                                                                                                            |
| INGRESS PROTECTION            | IP65                                                                                                                                                |
| WARRANTY                      | 5 years                                                                                                                                             |

\*) Back current drain is the current that drains the battery if the charger is not connected to the mains. CTEK chargers have a very low back current.

\*\*) The quality of the charging voltage and charging current is very important. A high current ripple heats up the battery which has an aging effect on the positive electrode. High voltage ripple could harm other equipment that is connected to the battery. CTEK battery chargers produce very clean voltage and current with low ripple.

### COPYRIGHT

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### LIMITED WARRANTY

CTEK SWEDEN AB, issues this limited warranty to the original purchaser of this product.

This limited warranty is not transferable.

The warranty applies to manufacturing faults and material defects from the date of purchase.

The customer must return the product together with the receipt of purchase to the point of purchase.

This warranty is void if the battery charger has been opened, handled carelessly or repaired by anyone other than CTEK SWEDEN AB or its authorised representatives. One of the screw holes in the bottom of the charger is sealed. Removing or damaging the seal will void the warranty.

CTEK SWEDEN AB makes no warranty other than this limited warranty and is not liable for any other costs other than those mentioned above, i.e. no consequential damages.

Moreover, CTEK SWEDEN AB is not obligated to any other warranty other than this warranty.

### EU DECLARATION OF CONFORMITY

Hereby, CTEK Sweden AB, declares that the MXS 7.0 (1053) is in compliance with LVD directive (2014/35/EU) EMC directive (2014/30/EU) RoHS directive (2011/65/EU and EU 2015/863)

The full text of the EU declaration of conformity is available at the following Internet address:

<https://www.ctek.com/uk/quality/doc>

### SUPPORT

CTEK offers a professional customer support. Get in touch by visiting -



[ctek.com/support](https://www.ctek.com/support)

### REVISIONS

The descriptions, information and specifications contained in this manual were in effect at printing. To make sure that the instructions are complete and up to date, always read the manual published on our website.