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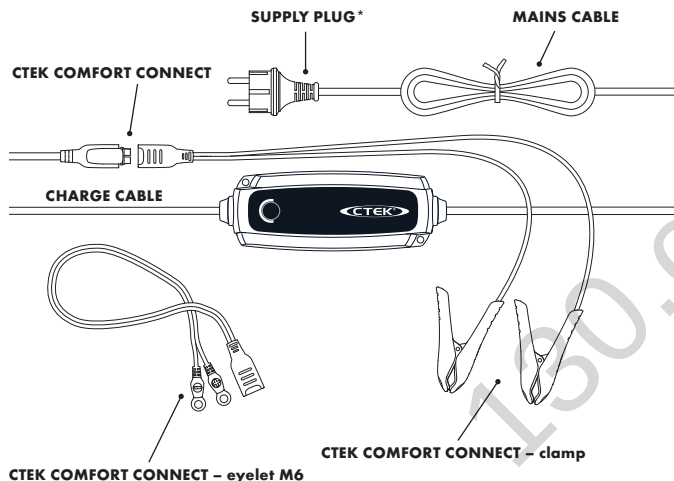


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CONGRATULATIONS

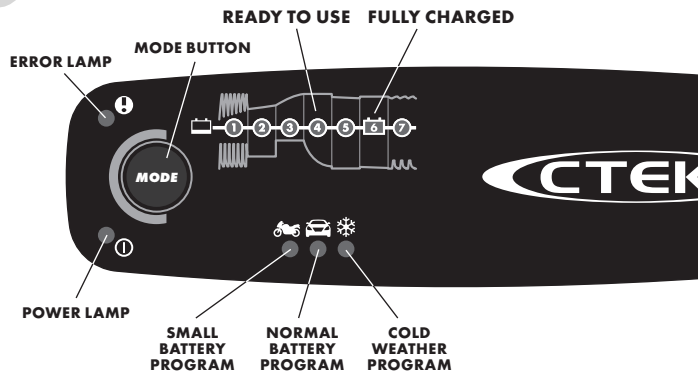
on the purchase of your new professional switch mode battery charger. This charger is included in a series of professional chargers from CTEK SWEDEN AB and represents the latest technology in battery charging.



* Supply plugs may differ to suit your wall socket.

HOW TO CHARGE

1. Connect the charger to the battery.
2. Connect the charger to the wall socket. The power lamp will indicate that the mains cable is connected to the wall socket. The error lamp will indicate if the battery clamps are incorrectly connected. The reverse polarity protection will ensure that the battery or charger will not be damaged.
3. Press the MODE-button to select charging program.
4. Follow the 7-step display through the charging process.
The battery is ready to start the engine when STEP 4 is lit.
The battery is fully charged when STEP 6 is lit.
5. Stop charging at any time by disconnecting the mains cable from the wall socket.



CHARGING PROGRAMS

Settings are made by pressing the MODE-button. After about two seconds the charger activates the selected program. The selected program will be restarted next time the charger is connected.

The table explains the different Charging Programs:

Program	Battery Size (Ah)	Explanation	Temp range
	1.2-14Ah	Small battery program 14.4V/0.8A Use for smaller batteries.	-20°C – +50°C (-4°F – 122°F)
	14-130Ah	Normal battery program 14.4V/3.8A Use for WET batteries, Ca/Ca, MF, GEL batteries and many AGM batteries.	+5°C – +50°C (41°F – 122°F)
	14-130Ah	Cold weather program 14.7V/3.8A Use for charging at low temperatures and for power AGM batteries like Optima and Odyssey.	-20°C – +5°C (-4°F – 41°F)

ERROR LAMP

If the error lamp is lit, check the following:



- 1. Is the chargers positive lead connected to the battery's positive pole?**
- 2. Is the charger connected to a 12V battery?**
- 3. Has charging been interrupted in STEP 1, 2 or 5?**
Restart the charger by pressing the MODE-button. If charging is still being interrupted, the battery...
STEP 1: ...is seriously sulphated and may need to be replaced.
STEP 2: ...can not accept charge and may need to be replaced.
STEP 5: ...can not keep charge and may need to be replaced.

POWER LAMP

If the power lamp is lit with a:



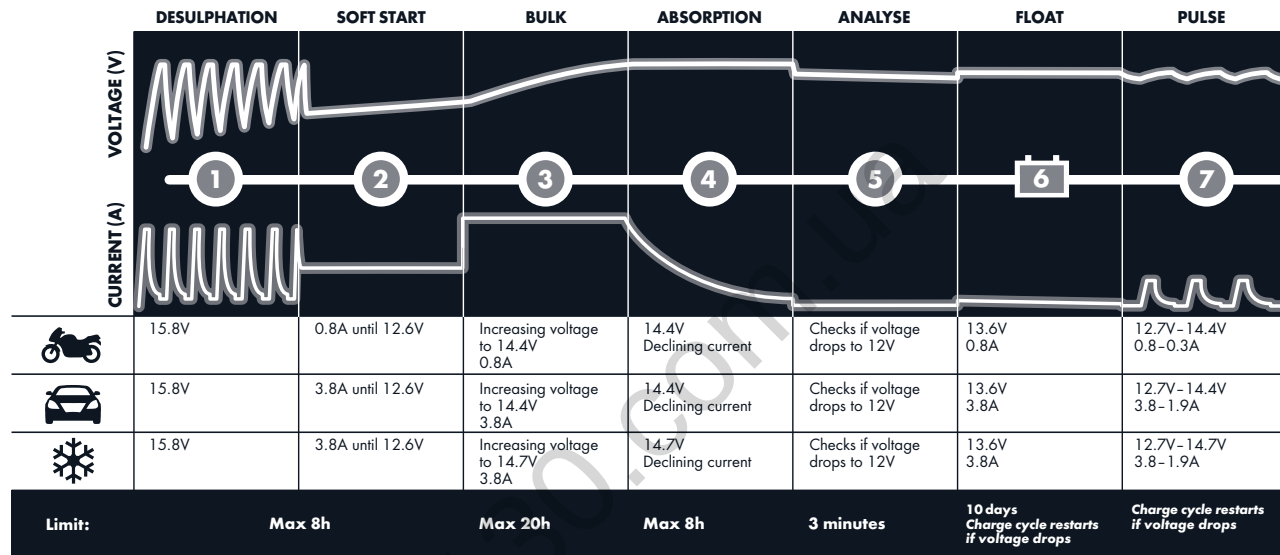
- 1. STEADY LIGHT**
The mains cable is connected to the wall socket.
- 2. FLASHING LIGHT:**
The charger has entered the energy save mode. This happens if the charger isn't connected to the battery in 2 minutes.

READY TO USE

The table shows the estimated time for empty battery to 80% charge

BATTERY SIZE (Ah)	TIME TO 80% CHARGED
2Ah	2h
8Ah	8h
20Ah	5h
60Ah	15h
80Ah	20h

CHARGING PROGRAM



STEP 1 DESULPHATION

Detects sulphated batteries. Pulsing current and voltage, removes sulphate from the lead plates of the battery restoring the battery capacity.

STEP 2 SOFT START

Tests if the battery can accept charge. This step prevents that charging proceeds with a defect battery.

STEP 3 BULK

Charging with maximum current until approximately 80% battery capacity.

STEP 4 ABSORPTION

Charging with declining current to maximize up to 100% battery capacity.

STEP 5 ANALYSE

Tests if the battery can hold charge. Batteries that can not hold charge may need to be replaced.

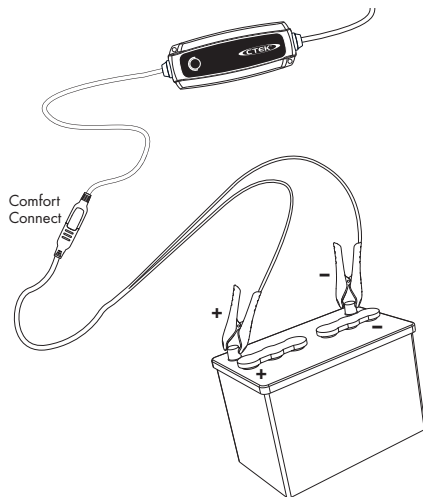
STEP 6 FLOAT

Maintaining the battery voltage at maximum level by providing a constant voltage charge.

STEP 7 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.

CONNECT AND DISCONNECT THE CHARGER TO A BATTERY



INFO

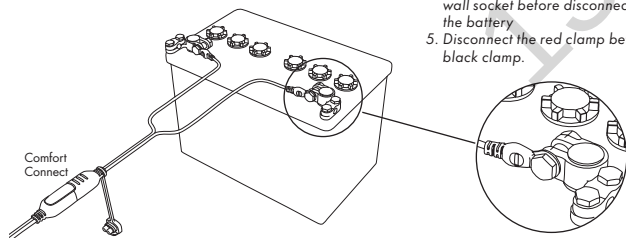
If the battery clamps are incorrectly connected, the reverse polarity protection will ensure that the battery and charger are not damaged.

For batteries mounted inside a vehicle

1. Connect the red clamp to the battery's positive pole.
2. Connect the black clamp to the vehicle chassis remote from the fuel pipe and the battery.
3. Connect the charger to the wall socket
4. Disconnect the charger from the wall socket before disconnecting the battery
5. Disconnect the black clamp before the red clamp.

Some vehicles may have positively earthed batteries.

1. Connect the black clamp to the battery's negative pole.
2. Connect the red clamp to the vehicle chassis remote from the fuel pipe and the battery.
3. Connect the charger to the wall socket
4. Disconnect the charger from the wall socket before disconnecting the battery
5. Disconnect the red clamp before the black clamp.



TECHNICAL SPECIFICATIONS

Model number	1070
Rated Voltage AC	220-240VAC, 50-60Hz
Charging voltage	🏍️🚗 14.4V, ⚙️ 14.7V
Min battery voltage	2.0V
Charging current	3.8A max
Current, mains	0.5Arms (at full charging current)
Back current drain*	<1Ah/month
Ripple**	<4%
Ambient temperature	-20°C to +50°C, output power is reduced automatically at high temperatures
Charger type	7 step, fully automatic charging cycle
Battery types	All types of 12V lead-acid batteries (WET, MF, Ca/Ca, AGM and GEL)
Battery capacity	1.2-80Ah up to 130Ah for maintenance
Dimensions	168 x 65 x 38mm (L x W x H)
Insulation class	IP65
Weight	0.6kg

*) Back current drain is the current that drains the battery if the charger is not connected to the mains. CTEK chargers has 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.

SAFETY

- The charger is designed for charging only for batteries according to the technical specification. Do not use the charger for any other purpose. Always follow battery manufacturers recommendations.
- Never try to charge non rechargeable batteries.
- Check the charger cables prior to use. Ensure that no cracks have occurred in the cables or in the bend protection. A charger with damaged cord must be returned to the retailer. A damaged mains cable must be replaced by a CTEK representative.
- Never charge a damaged battery.
- Never charge a frozen battery.
- Never place the charger on top of the battery when charging.
- Always provide for proper ventilation during charging.
- Avoid covering the charger.
- A battery being charged could emit explosive gasses. Prevent sparks close to the battery. When batteries are reaching the end of their lifecycle internal sparks may occur.
- All batteries fail sooner or later. A battery that fails during charging is normally taken care of by the chargers advanced control, but some rare errors in the battery could still exist. Don't leave any battery during charging unattended for a longer period of time.
- Ensure that the cabling does not jam or comes into contact with hot surfaces or sharp edges.
- Battery acid is corrosive. Rinse immediately with water if acid comes into contact with skin or eyes, seek immediate medical advice.
- Always check that the charger has switched to STEP 6 before leaving the charger unattended and connected for long periods. If the charger has not switched to STEP 6 within 40 hours, this is an indication of an error. Manually disconnect the charger.
- Batteries consume water during use and charging. For batteries where water can be added, the water level should be checked regularly. If the water level is low add distilled water.
- This appliance is not designed for use by young children or people who cannot read or understand the manual unless they are under the supervision of a responsible person to ensure that they can use the battery charger safely. Store and use the battery charger out of the reach of children, and ensure that children cannot play with the charger.
- Connection to the mains supply must be in accordance with the national regulations for electrical installations.

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 for 5 years 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. 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.

SUPPORT

CTEK offers a professional custom support: **www.ctek.com**.
For latest revised user manual see www.ctek.com. By e-mail: **info@ctek.se**,
by telephone: +46(0) 225 351 80, by fax +46(0) 225 351 95.

CTEK PRODUCTS ARE PROTECTED BY

2012-05-30

Patents	Designs	Trade marks
EP10156636.2 pending	RCD 509617	TMA 669987
US12/780968 pending	US D575225	CTM 844303
EP1618643	US D580853	CTM 372715
US7541778	US D581356	CTM 3151800
EP1744432	US D571179	TMA 823341
EP1483817 pending	RCD 321216	CTM 1025831
SE524203	RCD 000911839	CTM 405811
US7005832B2	RCD 081418	CTM 830545751 pending
EP1716626 pending	RCD 001119911-0001	CTM 1935061 pending
SE526631	RCD 001119911-0002	V28573IP00
US7638974B2	RCD 081244	CTM 2010004118 pending
EP09180286.8 pending	RCD 321198	CTM 4-2010-500516
US12/646405 pending	RCD 321197	CTM 410713
EP1483818	ZL 200830120184.0	CTM 2010/05152 pending
SE1483818	ZL 200830120183.6	CTM1042686
US7629774B2	RCD 001505138-0001	CTM 766840 pending
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US12/564360 pending	RCD 000835541-0002	
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	US D29/378528 pending	
	ZL 201030618223.7	
	US RE42303	
	US RE42230	