

N1015

GB	Intelligent Charger for 6V/12V Lead-Acid Accumulators and Lithium LiFePO ₄ 12,8V Accumulators
CZ	Intelligentní nabíječ 6V/12V olovených akumulátorů a Lithium LiFePO ₄ 12,8V akumulátorů
SK	Inteligentná nabíjačka 6V/12V olovených akumulátorov a Lithium LiFePO ₄ 12,8V akumulátorov
PL	Inteligentna ładowarka 6V/12V do akumulatorów ołowiowych oraz akumulatorów Lithium LiFePO ₄ 12,8V
HU	Okostöltő 6 és 12V-os savas ólomakkukhoz, 12,8V-os LiFePO ₄ lítiumakkukhoz
SI	Intelligenten polnilnik 6V/12V za svinčene akumulatorje in Lithium LiFePO ₄ 12,8V akumulatorje
RS HR BA	Intelligentni punjač za olovne akumulatore 6V/12V i Litijske LiFePO ₄ (litij željezo fosfatne) akumulatore 12,8V
DE	Intelligentes Ladegerät für 6V-/12V-Blei-Akkumulatoren und der Lithium LiFePO ₄ 12,8V-Akkumulatoren
UA	Зарядний пристрій 6 В/12 В свинцево-кислотних акумуляторів і Lithium LiFePO ₄ 12,8 В акумуляторів
RO	Încărcător inteligent de baterii cu plumb 6 V și baterii Lithium LiFePO ₄ 12,8 V
LT	Švino rūgštinių akumuliatorių 6V/12V ir ličio akumuliatorių LiFePO ₄ 12,8V, išmanusis įkroviklis
LV	Viedā uzlādes ierīce 6/12V svina-skābes akumulatoriem un litija LiFePO ₄ 12,8V akumulatoriem



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User Manual



Safety Instructions

Read the manual before using the charger. Failing to do so or operating the device without understanding the instructions may cause injury or death. Do not remove or cover up this warning.

Follow the safety instructions stated in this manual.

- The charger is an electrical device which may cause injury by electrical current. Be careful that the power lead does not become damaged. Do not use a damaged charger.
- Check the cables before using the charger. Make sure the cables are not partially broken and that their insulation or protection against excessive bending does not have cracks. Charger with a damaged cable must be returned to the retailer. A damaged power cable may only be replaced by the company selling the device.
- Ensure the cable is not constricted or touching hot surfaces or sharp edges.
- Connection to the power grid must correspond to regulations and standards for electrical installations valid in the country of use.
- Do not leave the charger unattended when in use.
- All accumulators lose capacity sooner or later. Thanks to the advanced control system, the charger usually recognises if the charger is in poor condition or at the end of its service life and will adjust the charging process to this fact. However, there is always a chance of unusual defects. Do not leave the charging accumulator without supervision for an extended period of time.
- Before you leave the charger unattended and plugged in for an extended period, always check that it is switched to maintenance charging mode. If the charger does not switch to STAGE 7 within 40 hours, it is a sign of a problem. Disconnect the charger manually.
- The charger is not designed for use by children or persons incapable of reading this manual and understanding it; these persons must not use the device without being supervised by a person who can ensure the charger is used safely. Store and use the charger out of reach of children and ensure they cannot play with the device.
- Do not smoke or use other sources of electrical sparks or fire when working with the charger. Place the charger away from flammable materials. The charger is an electrical device which heats up and can cause a fire.
- Explosive gasses may be released from the accumulator when charging. Prevent formation of sparks in the vicinity of the accumulator. When accumulators reach the end of their service life, internal sparking may occur.
- Risk of damage to the eyes. The accumulator may explode and its parts may cause damage. The electrolyte from the accumulator may irritate the eyes. Protect your eyes when working with the charger. Do not touch your eyes and wash your hands after using the charger. Rinse the affected area with water in case of contact with the eyes.
- The electrolyte inside the accumulator is an acid (H₂SO₄ solution). If the electrolyte comes into contact with skin or the eyes, immediately rinse with large amount of water and seek medical assistance.
- The charger is designed for charging only accumulators which meet the technical specifications.
- Do not use it for any other purposes. Always follow the recommendations of the manufacturer of the accumulator.
- Never attempt to charge non-rechargeable accumulators.
- The charger is not designed for charging lithium-ion accumulators.
- Never charge a damaged accumulator.
- Never charge a frozen accumulator.
- Never place the charger on top of the accumulator when charging.
- Always ensure proper ventilation while charging.
- Do not cover the charger with anything.
- Do not expose the charger to rain, snow or excessive humidity. Use indoors only.
- Use or recharging consume water inside the accumulator. Regularly check the electrolyte level in accumulators where water can be refilled. If the electrolyte level is low, add distilled water.



Specifications:

Input voltage:	220–240 V AC 50 Hz 300 mA
Input current:	max. 0.8 A
Charging voltage:	7.3 V/14.5 V DC
Charging current tolerance:	0.8 A ±10 %
Charging voltage tolerance:	±0.2 V
Accumulator types:	All types of 6/12 V lead-acid accumulators (with liquid electrolyte (WET), maintenance-free (MF), Ca/Ca, AGM and GEL). Lithium: 12.8 V; 4-cell LiFePO ₄
Accumulator capacity:	Lead-acid accumulators 6/12 V: 1.2 Ah to 30 Ah Lithium 12.8 V; 4-cell LiFePO ₄ : 2 to 15 Ah

Charger type: seven-stage, fully automated charging cycle for lead-acid accumulators.
Three stage, fully automated charging cycle for 4-cell lithium LiFePO₄ 12.8 V accumulators.

Type of charging control: CC
 Power offtake from the grid: 300 mA (at full charging current)
 Discharging by backfeed current*: <5 mA
 Ripple factor**: < 5 %
 Efficiency: approx. >80 %
 Stand-by mode: <1 W
 Maintenance current: >60 mA
 Voltage level for evaluating a poor or unsuitable accumulator: <2 V or >14 V, for lithium LiFePO₄ 11.6–13.8 V.

Protection against short circuit, overload, overheating and reversed polarity.
 Automatic termination of charging.
 Maintenance mode.

Charging cable: length 1.8 m – terminals (+ red, - black)
 Enclosure: IP65 (charger enclosure)
 Operating temperature: 0–40 °C (output power automatically decreases at high ambient temperature)
 Storage temperature: -30–60 °C
 Dimensions: 116.2 × 68.4 × 71.3 mm (L × W × H)
 Weight: 255 g

*) Discharging by backfeed current is caused by current passing through the connected charger when it is disconnected from power supply. The EMOS type E-CC008A charger has very low backfeed current of <1 Ah per month (1 mA/h).

**) The quality of the charging voltage and current is very important. High rippling of the current causes overheating of the accumulator and accelerates the wear of positive electrodes. High ripping of the voltage can also interfere with other devices connected to the accumulator. Charger EMOS E-CC008A provides high-quality voltage and current with low ripple factor.



Charger EMOS type E-CC008A is a 7-stage fully automated charger which allows charging of 6 V/12 V lead-acid, maintenance-free, Super MF, VRLA, UPS and lithium LiFePO₄ 12.8 V accumulators and is capable of switching charging modes. The E-CC008A is a versatile charger with charging modes for small and medium lead-acid accumulators with capacities between 1.2 and 30 Ah and lithium LiFePO₄ 12.8 V 4-cell accumulators 2–15 Ah.


Using the most modern technologies allows the charger to charge accumulators to almost 100 % of their original capacity. It restores slightly sulphated accumulators. It diagnoses and charges discharged accumulators. The charger has a memory. When power supply cuts out, it remembers the charging mode and continues once power supply is restored.

Operating Instructions

Carefully read the manual and safety information about the vehicle and learn the proper procedure for charging the battery. Modern vehicles are fitted with sensitive electronic components which may become damaged if incorrect technique is applied.

Description of Functions and Icons



Icon	Description	Meaning	LED colour
MODE	MODE button	Charging mode switch.	-
	Power indicator	Stand-by mode.	Green LED
12 V	Charging indicator for 12 V accumulators	Mode for charging 12 V accumulators.	Red LED
6 V	Charging indicator for 6 V accumulators	Mode for charging 6 V accumulators.	Red LED
12.8 V LITHIUM	Indicator for charging LiFePO ₄ accumulators	Mode for charging LiFePO ₄ 12.8 V accumulators.	Red LED

Obsah je uzamčen

Dokončete, prosím, proces objednávky.

Následně budete mít přístup k celému dokumentu.



Proč je dokument uzamčen? Nahněvat Vás rozhodně nechceme. Jsou k tomu dva hlavní důvody:

- 1) Vytvořit a udržovat obsáhlou databázi návodů stojí nejen spoustu úsilí a času, ale i finanční prostředky. Dělali byste to Vy zadarmo? Ne*. Zakoupením této služby obdržíte úplný návod a podpoříte provoz a rozvoj našich stránek. Třeba se Vám to bude ještě někdy hodit.

**) Možná zpočátku ano. Ale vězte, že dotovat to dlouhodobě nelze. A rozhodně na tom nezbohatneme.*

- 2) Pak jsou tady „roboti“, kteří se přiživují na naší práci a „vysávají“ výsledky našeho úsilí pro svůj prospěch. Tímto krokem se jim to snažíme překazit.

A pokud nemáte zájem, respektujeme to. Urgujte svého prodejce. A když neuspějete, rádi Vás uvidíme!