

**TECHNICAL SPECIFICATIONS**

Input voltage	12 - 24VDC
Charging time	7h 30min - 10h
Charge current	800-900mA
Trickle charge current	200mA
Operating temp range	+0...+40°C
Dimensions (Hx W xD)	153x 138x 88 mm
Weight	485g
Protection class	IP 44

**WARRANTY**

MICA lamps and ILC Charger ramp are guaranteed for one year from date of purchase against all defects in materials and workmanship in accordance with general warranty conditions. Warranty will expire if the electronic circuitry is tampered with or the components thereof are otherwise damaged. For warranty servicing, please include a copy of purchase action document with the shipment of the defective equipment.

**SPECIAL ILC-VAC CHARGER****Distinctions of MICA ILC-VAC charging unit in comparison with ordinary ILC charging unit****Installation and commissioning:**

MICA ILC-VAC is being installed directly into the VAC network. Take care that any timer or similar device should not interrupt the supply voltage.

**Maintenance:**

Only trained electrician should maintain charging unit MICA ILC-VAC.

**Spare parts:**

Spare parts of the ILC-VAC are presented on the explosion drawing attached.

- |   |         |  |
|---|---------|--|
| 1 | H0122_2 | ILC Charging holder kit (contacts, screws and label) |
| 2 | H0123_2 | ILC Circuit board                                    |
| 3 | H0121_2 | ILC Charging curve control unit                      |
| 4 | H0124_3 | ILC-VAC Power card, plates and screws                |
| 5 | H0125_1 | AC/DC Inverter unit                                  |

**Supply voltage:** 85...264VAC (47...63Hz)

**Weight:** 860gr

**MANUFACTURER**

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Product information given in this document subject to change without prior notice.

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## MICA ILC & SPECIAL ILC-VAC Charging Holder User's Guide

Read these instructions carefully to extend the life of your ILC Charger by correct handling. For more information on other MICA products, please contact your retailer.



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# MICA ILC Charger User's Guide

## INSTALLATION

Mount the MICA ILC charger with four screws in a position leaving sufficient space above the charger for insertion of a lamp/battery into the charger and removal therefrom. The MICA ILC charger is specified for use in both indoors and vehicle installations.

### Connection to 12...24 VDC supply voltage

Use a proper supply voltage cable (Part. No. 01113) for connecting the charger to the vehicle's battery power bus or other 12-24 VDC supply. Note correct polarity: the red conductor must be attached to the positive (+) polarity. When connecting the charger supply voltage cable directly to the vehicle's power bus, attach a 10 A fuse box as close as possible to the battery terminal to protect the charger supply voltage line. Optionally, your MICA retailer can provide you a supply voltage cord (Part No. 01112) suitable for feeding the charger from a cigarette lighter connector.

### Connection to 90...265 VAC supply voltage

ILC may alternatively be fed from a 90...265 VAC mains with the help of a MICA IL-2 (Part No. 11274) mains adapter available as an accessory from your retailer. *Also other types of mains adapters are available: for multiple MICA chargers, and versions compatible with different outlet standards and heavy-duty adapters rated for higher a IP protection class required in maritime use, for instance.*

The red "POWER" indicator is lit at the charger and it indicates proper connection to the supply voltage.

**Never connect the MICA ILC directly to the mains or other AC source. The power supply should be continuous and may not be supplied via a timer or any kind of switch.**

## CHARGING

Insert a MICA IL lamp on the charger. The yellow "CHARGING" indicator stays lit during the entire charging cycle. At full charge, the green "READY" indicator turns on.

<u>Red LED "POWER"</u>	<u>Yellow LED "CHARGING"</u>	<u>Green LED "READY"</u>
Stays on when supply voltage is OK	Indicates on-going charging cycle	Indicates fully charged battery

In a fault situation, all LED's are turned off.

<u>Battery type</u>	<u>Charge time</u>
5.5 Ah NiCd battery	7h 30min
8.5 Ah NiMH	10h

MICA ILC is suitable for charging all types of MICA IL lamps, HL-150 cap lamp and MICA HB-55/57 batteries.

The battery voltage may become low during prolonged storage. Therefore, a new lamp should always be charged prior to use. A battery typically gains its full capacity after about five complete charge/discharge cycles. The lamp can be stored in the charger without a risk of overcharge. At the end of a charging cycle MICA ILC automatically switches on a trickle-charge current that keeps the lamp at full charge without defecting the battery.

When the use of a lamp involves short duty cycles between charging cycles, it is recommended that the lamp is left on, e.g., after every 10 cycles of use so that the battery capacity will become entirely empty (NOTE: the lamp's electronic control circuitry will automatically turn off the lamp before there is any risk of battery deep discharge). This procedure prevents the memory effect occurring in NiCd batteries.

## SERVICING

In a fault situation, all indicators are turned off. NOTE: The red "POWER" indicator also turns off in a fault situation if any lamp is inserted in the charger (that is, if the red indicator does not turn on when you remove the lamp from the charger, the power feed to the rack is at a fault). For repair of a damage caused to the charger, please, send the unit to an authorized MICA service. Your local MICA retailer will help you in servicing and provide the necessary spare parts.

Prior to dismantling the charger, disconnect the supply voltage cable from the power source (at the quick-disconnect connector) and remove the mounting screws of the end panels (4 pcs. screws at either end). Next, disconnect the supply voltage cable at the connector of the electronics unit. The electronics unit (Part. No. H0123\_2) is fixed on the on the charger mounting bracket (Part. No. H0122\_2) by the nuts of the contacts. As the electronics unit is not user-serviceable for any part, repair operations by the user should be limited to replacement of the spare parts listed below.

## SPARE PARTS

- |   |         |   |
|---|---------|---|
| 1 | H0122_2 | Mounting bracket, connectors, screws, nuts, LED indicator sticker |
| 2 | H0123_2 | Printed circuit board with mounting kit                           |
| 3 | H0121_2 | Mounting profile  |
| 4 | H0124_2 | Supply voltage cable, panels and screws                           |

**NOTE! When ordering spare parts, always mention type and serial number of your lamp and charger.**

## ACCESSORIES

- |       |       |  |
|-------|-------|--|
| 11270 | IL-2  | Mains adapter 90...265VAC/47...63 Hz             |
| 11310 | IL-5  | Supply changeover unit for vehicle installations |
| 11324 | CR-15 | Charger holder rack                              |

