An ISO 9001 Company

MIL-D1/BC

High-Performance Battery Charger for MIL-D1 Mine Detector Set

BATTERY COMPARTMENT

MIL-D1/BC DISPLAY SHOWING PART OF THE "BATTERY CHARGED" MESSAGE

Universal AC/DC Power Supply Input

Fully Microprocessor Controlled

Fastest Charging Time even with Very High Capacity NiMH Batteries

Extremely Robust and Reliable

Top-Off Charge Built-In Function

Complete Autodiagnostic with LCD Display and Acoustic Alarms

Battery Protection against Overheating

Wide Operating and Storage Temperature Range

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MIL-D1/BC High Performance Battery Charger

The **MIL-D1 Mine Detector Set** is usually powered by four 1.5V size D alkaline batteries which guarantee the operativeness for more than 65 hours (at 25°C) in continuous duty. Such a long operating time allows the use of the Metal Detector even in remote areas with a minimum requirement of battery replacement and a consequent strong reduction of the operating costs.

If required, the same unit can be supplied by means of four rechargeable batteries Ni-MH type. In this case CEIA proposes the **MIL-D1/BC Battery Charger, designed to optimise both the process and the recharge speed, in different climatic conditions and environmental temperatures**. It can be supplied from both direct and alternating current (DC/AC).

The MIL-D1/BC Battery Charger is characterized by an accurate control of the charging conditions in order to obtain the highest performances from the batteries together with the highest number of life cycles. The MIL-D1/BC is housed in an insulating enclosure made of nylon, reinforced with glass, and characterized by a very high robustness against external mechanical shocks. The electronic circuitry is protected by means of a coating insulating the components from humidity and other external agents.

Main features

- Universal AC/DC Power Supply Input
- Fully Microprocessor controlled
- Messages through 8 characters LCD display
- Pre-Charge, Fast Charge, Trickle Charge and Top-Off Charge built-in functions
- Charging time: see the graph in this page (referred to 4 x 1.2V Ni-MH - 7000 mA/h)
- Accepted rechargeable batteries: 4 x 1.2V NiMH - up to 7000 mA/h

Built-in Diagnostic

Acoustical signalling:

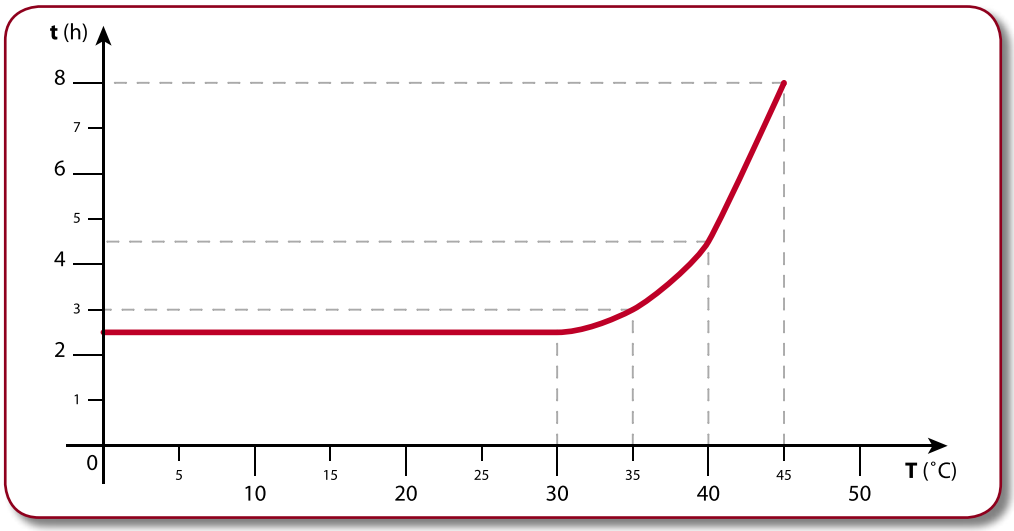
- Batteries Not Inserted
- Batteries in Charge
- Charge Completed
- Fault

Visual signalling:

- Startup
- Batteries Not Inserted
- Batteries Under Charge
- Batteries Charged
- Wrong Polarity Detection
- Temperature Out of Range
- Insufficient Power Supply

Technical Data

- Power Supply Input:
  - 80 ÷ 260 Vac - 50/60 Hz 35 VA max, automatic ranging
  - 12 ÷ 30 Vdc - 31 W max (full charging specifications); 11 Vdc minimum required with charging derating
- Main Supply Input protected against continuous overvoltages up to 400 Vrms
- Charge process not affected by power supply interruptions
- Operative Temperature: 0 ÷ 45 °C (according to the Ni-MH batteries limits)
- Storage Temperature:
  - Electronic Unit: -55 ÷ +75 °C
  - NiMH Batteries: -20 ÷ +40 °C
- Relative humidity: 0 ÷ 95 % (without condensation)
- Weight: 1020 g (without batteries)
- Overall dimensions: 215 x 140 x 80 mm (H x W x L)
- Supplied with:
  - AC Power Supply Cord with Standard European plug
  - Adapter from Standard European to USA power plug
  - DC Power Supply Cord with Universal Plug suitable for 12Vdc car, boat and caravan electrical systems (DIN ISO 4165)



CHARGING TIME VS ENVIRONMENTAL TEMPERATURE (referred to 4 x 1.2V Ni-MH - 7000 mA/h)

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