

# BATTERY CHARGER AND DISCHARGER

12Vdc

8A dc

4x100W

## Battery charger and discharger multiway:

- Discharge power up to 100W per output.
- Discharge current up to 8A per output.

## Simultaneous test of 4 batteries.

Battery maintenance operations requires to operate charge and discharge on batteries. It is helpful to dispose of an equipment able to control the discharge and also to the preprogrammed current.



Picture for illustration purposes only.

MCDB100

### • Packaging

- Box - «Flight case» : L = 535 - P = 320 - H = 460 mm.

### • Main power supply

- 230 Vac Single Phased + Earth - 50/60 Hz.
- Connection by Europa plug - Cord supplied.
- Fuse protected .

### • Control unit

- Microcontroller controlled module with backlight LCD display, status indicating led (discharge, fault,...), function keys and navigation menus, allowing to execute the following operations:
- Selection of the number of batteries.
- Selection of the battery type Plomb or Nickel Cadmium.
- Automatic detection of the batterie voltage (2V to 14V).
- Adjustment of the voltage by 0.1V steps.
- Adjustment of the current by 0.1A steps.
- Adjustment of the charge or discharge time from 1 minute to 10 hours.
- Test start and stop command and status indicated by a led.
- Current measure (accuracy 0.1A).
- Voltage measure (accuracy 0.1V).
- Elapsed time counter.
- Total capacity calculator.
- Serial output RS232.

### • Discharge module

- Electronic control of the discharge current.
- Discharge current from 1A to 8A by 0.01A steps.
- Constant current discharge.
- Discharge current accuracy : 0.1A  $\pm$  1 digit maximum.

### • Charge module

- Selection of the number of batteries.
- Selection of the battery type (Pb or NiCd).
- Electronic control of the battery charge.
- Charge current and voltage accuracy : 0.1A et 0.1V.

### • Protection

- Emergency switch button.
- Protection against electrical and thermal overloads.
- End-charge and discharge voltage control.
- Stop of the test if a problem is detected.

### • Connectivity

- Measure plugs of battery elements :  $\varnothing$ 4mm.
- Cables 2 x 2m - 2.5mm<sup>2</sup> equipped with fuses and clips.

### • References

- MCDB100/4 : 4 Batteries simultaneous.
- MCDB100/3 : 3 Batteries simultaneous.
- MCDB100/2 : 2 Batteries simultaneous.
- MCDB100/1 : 1 Battery.

### • Options

- Other current and voltage ranges on request.
- MCDBWIN : Driving and capture software of measurements and discharge curves visualization.

Guarantee one year parts and labor. All interventions are carried out exclusively in our factory.

Due to continuous research program, these characteristics can be modified.