

GALAXY® GMDSS DSC class D VHF marine EMERGENCY BATTERY AUTO CHARGER - CHARGER**EBC 1212-7AL GALAXY® FOR 12v ON-BOARD ELECTRICAL SYSTEM**

Automatic emergency battery charger and converter for class D DSC VHF marine. **Compact, presentable and excellent construction with great ease of installation.** Thank you for choosing this device of ours. Please read this form carefully and keep it for future reference if necessary.

Ideal for small boats that only have a 12v electrical system. Thus, they are also easily adapted to the requirements of the GMDSS (Global Maritime Distress Safety System) for emergency situations. It automatically charges and then keeps the emergency battery charged. If there is a problem with its main electrical system boat automatically and immediately continues to power the VHF transceiver etc. for many hours from this battery. This is how seamlessness is achieved continuing telecommunications to seek help etc.



It provides all the necessary functions required by the regulations.

So that you don't have a problem in the control for seaworthiness approval !!!

It doesn't give false alarms. The alarm does not sound when the starter is working! It is activated only when there is a real reason !!!

- Recharges in 10 hours a fully discharged 12V-70Ah backup battery with approximately 60 Ah initially providing an average 7A current. Then charging with a gradually decreasing current continues until it is fully charged. After full charge it keeps the backup battery fully charged. It has a visual indication when it is working. It has an instrument indicating the voltage as well as an instrument indicating the charging intensity of the reserve battery. It has clear visual LED indicators of what is happening to the main battery of the boat's electrical system as well as the backup emergency battery. It has an audible alarm that works together with the LED alarm indicators but if the audible alarm is needed you cancel by pressing the special button.
- All alarms stop automatically when the causes that caused them are eliminated and resume if there is a real cause again alarm. It has automatic fuses that reactivate with a simple movement of their lever. No need for spare fuses, unscrewing and time-consuming procedures for searching and replacing blown fuses at critical moments. It has protection against reverse connection of the main battery polarity. It has short-circuit protection of the connection terminals of the backup battery.
- Does not create parasites and interference with other devices. It is small and elegant in appearance with flexibility of placement and support with various angles on the table, on the wall or on the ceiling. So may be placed in various places and its indications visible from the vessel's navigation point as required by the regulations. It is designed and manufactured with great care, so we are sure that it will work flawlessly for many years. It has a two-year warranty.

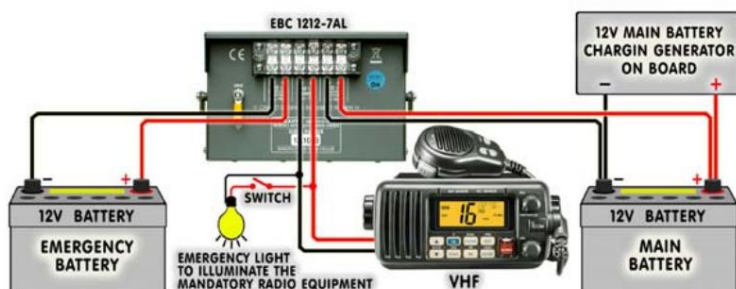
Connect the main and backup batteries to the appropriate contacts of the terminal with as short and thick leads as possible. also connect the VHF power cables, etc. When making the connections, make sure they are made with the correct polarity and to the correct terminal sockets. The main battery should also remain connected to its electrical charging system on board.

Keep your boat's main battery in good condition and charged too by checking it regularly and starting it up from time to time its electrical charging system.

When installing, ensure that after the charger is in operation there is sufficient ventilation to dissipate the heat that may is created within him.

For the correct charging function of the reserve battery, the electrical charging system of the main battery on the boat must provide at least 14V. A full charge of the backup battery is achieved when the electrical charging system of the main battery is operating.

CAUTION!!! It is not allowed to disconnect the generator (dynamo) of electricity production as well as to disconnect the main battery from the boat's electrical installation when the charger is operating.

GALAXY® EBC 1212-7AL EMERGENCY BATTERY AUTO CHARGER-CHARGER WIRING DIAGRAM



ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ ΚΑΤΑΣΚΕΥΑΣΤΗ
ΑΥΤΟΜΑΤΩΝ ΦΟΡΤΙΣΤΩΝ - ΜΕΤΑΛΛΑΚΤΩΝ GALAXY®
EBC 1212-10A & EBC 1212-7AL ΓΙΑ ΕΦΕΔΡΙΚΟΥΣ ΣΥΣΣΟΡΕΥΤΕΣ ΜΟΛΥΒΔΟΥ 12V

GALAXY® DECLARATION OF CONFORMITY	
We, the undersigned	
Manufacturer's Name :	GALAXY® electric & electronics
Manufacturer's Address :	Karaoli Dimitriou 17A Halandri, Athens, 15232
Country :	Greece
Fax number / e-mail :	+30 210 6830030 / mail@galaxy.gr
Authorized representative :	
Address :	
Country :	
Certify and declare under our sole responsibility that the following apparatus :	
Product Name :	Battery auto Changer - Charger
Model Number :	EBC 1212-10A & 7AL
Restrictive use :	
Conforms with the essential requirements of the EMC Directive 2004/108/EC based on the following specifications applied :	
EU Harmonized Standards :	EN 61000-6-3 (Radiated emission), EN 61000-6-1 (Immunity) [EN 61000-4-2 (ESD), EN 61000-4-3 (RF Immunity test)]
The Technical documentation is kept at the following address :	
GALAXY® electric & electronics Karaoli Dimitriou 17A, Halandri, Athens, Greece, 15232	
Place, date	Name and position of person binding the manufacturer or his authorized representative.
HALANDRI 15-05-2009	KRITIKOS IOANNIS TECHNICAL MANAGER

EBC 1212-7AL(LIGHT) GALAXY® TECHNICAL CHARACTERISTICS

MAXIMUM INPUT VOLTAGE FROM MAIN BATTERY =	14.5 V
MAXIMUM BACKUP BATTERY CAPACITY AND TYPE =	70 Ah - 12V LEAD
MINIMUM BACKUP BATTERY CAPACITY AND TYPE =	25 Ah - 12 V LEAD
MAXIMUM AVERAGE BACK-UP BATTERY CHARGING CURRENT =	7 A
MAXIMUM PERMITTED CONSUMPTION FROM THE 12V VHF OUTPUT =	7 A
ALARM INITIATION TIME FROM THE MOMENT OF THE CAUSE =	6 sec APPROXIMATELY
ALARM STOP TIME AFTER ELIMINATING THE CAUSE =	< 0.5 sec
DEVICE CONSUMPTION AT REST =	20 mA APPROXIMATELY
DEVICE CONSUMPTION IN ALARM STATE =	30 mA APPROX
WEIGHT =	1.25 Kg APPROXIMATELY
DIMENSIONS WITHOUT THE BASE ETC. =	17.5 cm X 11.3 cm X 9 cm

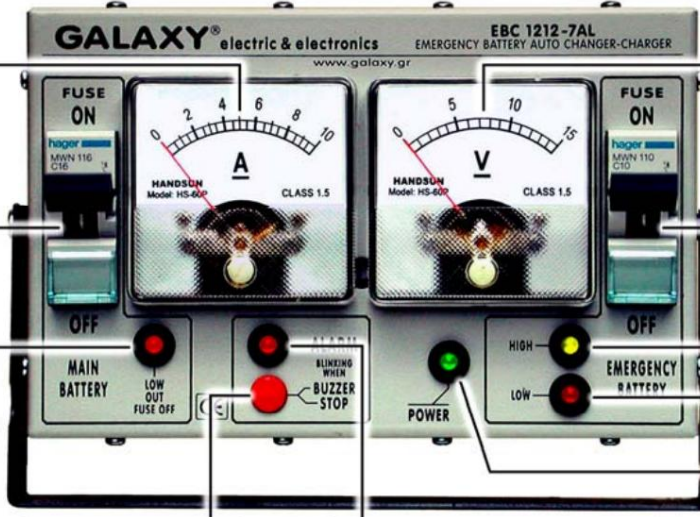
WITH A SPECIAL OPTIONAL KIT THAT CONTAINS ALL THE NECESSITIES, IT CAN ALSO BE PLACED ON A PANEL

ΑΜΠΕΡΟΜΕΤΡΟ ΠΟΥ ΔΕΙΧΝΕΙ ΤΟ ΡΕΥΜΑ ΦΟΡΤΙΣΗΣ ΤΗΣ ΕΦΕΔΡΙΚΗΣ ΜΠΑΤΑΡΙΑΣ. ΟΤΑΝ Η ΒΕΛΟΝΑ ΔΕΙΧΝΕΙ ΚΑΤΩ ΑΠΟ ΤΟ ΜΗΔΕΝ ΣΗΜΑΙΝΕΙ ΟΤΙ Η ΤΑΣΗ ΤΗΣ ΚΥΡΙΑΣ ΜΠΑΤΑΡΙΑΣ ΕΙΝΑΙ ΑΡΚΕΤΑ ΧΑΜΗΛΟΤΕΡΗ ΑΠΟ ΤΗ ΤΑΣΗ ΤΗΣ ΕΦΕΔΡΙΚΗΣ. ΣΤΗ ΠΕΡΙΠΤΩΣΗ ΑΥΤΗ ΒΑΛΤΕ ΜΠΡΟΣ ΤΗ ΜΗΧΑΝΗ ΤΟΥ ΣΚΑΦΟΥΣ ΓΙΑ ΝΑ ΦΟΡΤΙΣΤΕΙ Η ΚΥΡΙΑ ΜΠΑΤΑΡΙΑ ΚΑΙ ΝΑ ΣΤΑΜΑΤΗΣΕΙ Η ΕΚΦΟΡΤΙΣΗ ΤΗΣ ΕΦΕΔΡΙΚΗΣ.

ΑΥΤΟΜΑΤΗ ΑΣΦΑΛΕΙΑ ΣΤΗΝ ΕΙΣΟΔΟ ΑΠΟ ΤΗΝ ΚΥΡΙΑ ΜΠΑΤΑΡΙΑ ΤΟΥ ΦΟΡΤΙΣΤΗ EBC 1212-7AL.

ΚΟΚΚΙΝΟ LED. ΑΝΑΒΕΙ ΟΤΑΝ Η ΤΑΣΗ ΤΗΣ ΚΥΡΙΑΣ ΜΠΑΤΑΡΙΑΣ ΠΕΣΕΙ ΚΑΤΩ ΑΠΟ ΤΑ 11V, ΟΤΑΝ ΕΧΕΙ ΑΠΟΣΥΝΑΕΦΘΕΙ ΑΠΟ ΤΟ ΦΟΡΤΙΣΤΗ ή ΟΤΑΝ ΕΧΕΙ ΠΕΣΕΙ Η ΑΣΦΑΛΕΙΑ ΣΤΗΝ ΕΙΣΟΔΟ ΤΟΥ ΦΟΡΤΙΣΤΗ.

ΜΠΟΥΤΟΝ ΠΟΥ ΟΤΑΝ ΥΠΑΡΧΕΙ ΣΥΝΑΓΕΡΜΟΣ ΠΙΝΩΝΤΑΣ ΤΟ ΣΤΑΜΑΤΑ ΤΟΝ ΗΧΟ ΤΟΥ ΒΟΜΒΗΤΗ.



ΒΟΛΤΟΜΕΤΡΟ ΠΟΥ ΔΕΙΧΝΕΙ ΤΗ ΤΑΣΗ ΤΗΣ ΕΦΕΔΡΙΚΗΣ ΜΠΑΤΑΡΙΑΣ.

ΑΥΤΟΜΑΤΗ ΑΣΦΑΛΕΙΑ ΕΦΕΔΡΙΚΗΣ ΜΠΑΤΑΡΙΑΣ.

ΚΙΤΡΙΝΟ LED. ΑΝΑΒΕΙ ΟΤΑΝ Η ΤΑΣΗ ΤΗΣ ΕΦΕΔΡΙΚΗΣ ΜΠΑΤΑΡΙΑΣ ΞΕΠΕΡΑΣΕΙ ΤΑ 13.8V ΚΑΙ ΥΠΕΡΦΟΡΤΙΖΕΤΑΙ.

ΚΟΚΚΙΝΟ LED. ΑΝΑΒΕΙ ΟΤΑΝ Η ΤΑΣΗ ΤΗΣ ΕΦΕΔΡΙΚΗΣ ΜΠΑΤΑΡΙΑΣ ΠΕΣΕΙ ΚΑΤΩ ΑΠΟ ΤΑ 11.5V.

ΠΡΑΣΙΝΟ LED. ΕΝΔΕΙΚΤΙΚΟ ΛΕΙΤΟΥΡΓΙΑΣ ΤΟΥ ΦΟΡΤΙΣΤΗ.

ΚΟΚΚΙΝΟ LED. ΑΝΑΒΕΙ ΚΑΙ ΑΝΑΒΟΣΒΕΙΝΕΙ ΟΤΑΝ ΥΠΑΡΧΕΙ ΣΥΝΑΓΕΡΜΟΣ. ΑΝΑΒΟΣΒΕΙΝΕΙ ΜΕ ΕΝΤΟΝΟΤΕΡΟ ΦΩΤΙΣΜΟ ΟΤΑΝ ΥΠΑΡΧΕΙ ΣΥΝΑΓΕΡΜΟΣ ΚΑΙ ΕΧΕΙ ΑΝΑΚΛΗΘΕΙ Ο ΗΧΟΣ ΤΟΥ ΒΟΜΒΗΤΗ.

Ο ΣΥΝΑΓΕΡΜΟΣ ΕΝΕΡΓΟΠΟΙΕΙΤΑΙ ΟΤΑΝ ΥΠΑΡΧΕΙ ΠΡΑΓΜΑΤΙΚΗ ΑΙΤΙΑ ΚΑΙ ΣΤΑΜΑΤΑ ΑΥΤΟΜΑΤΑ ΟΤΑΝ ΕΞΑΛΕΙΦΤΕΙ Η ΑΙΤΙΑ ΠΟΥ ΤΟΝ ΠΡΟΚΑΛΕΣΕ

- If you have another charger and it is bothering you with false alarms, malfunctions or broken, put a **GALAXY®** now to find your peace! - If you are a technician doing installations, reset or replace with a **GALAXY®** charger to avoid being called back to a little and you end up with others of poor quality that often present problems!

Keep this form in a safe place on board. It contains the manufacturer's declaration of conformity to its requirements Ministry of Merchant Shipping and CE. You will be needed for the inspection of the vessel or for future inspections.

WARRANTY

GALAXY® CHARGERS HAVE A TWO-YEAR WARRANTY.
 THE WARRANTY DOES NOT APPLY IF DAMAGE IS CAUSED BY MISUSE, EXTREME WEATHER OR CORROSION.