

USER MANUAL

00	30-08-2012	<i>Devesh</i>
REV.	DATE	T.M. Check and Approval

BACH is a battery charger for one, two or four batteries (12V, 24V or 48V).

It can be supplied in 2 versions :

12V / 24V 3A	code 202.06.BACH1	to charge a single battery o two batteries series connected
48V 1,5A	code 202.06.BACH1.48	to charge four batteries series connected

SAFETY

Installation has to be done only by qualified staff.

Be careful to avoid any possible contact with the board when it is powered.

Be careful to make the connections only when the power wires are not connected to the mains supply.

Some components , when the board is connected to the mains supply , have the voltage potential of the mains. This voltage is highly dangerous and can cause death or serious damages.

TECHNICAL SPECIFICATIONS AND INSTALLATION

Power supply : 230V 50Hz +8/-15%

Charge current : 3 A at 12V or 24V, 1.5 A at 48V

It has to be executed inside electrical panels with IP20 or higher protection level.

Working temperature between 0 and +50 °C.

Humidity between 5 and 90% without condense.

Max. altitude 1000m.

CABLING

CN1 - Output terminal (wires – and +). For wires up to 1.5 mmq.

JP1 jumper must be properly set for the correct voltage charge.

CN2 - Supply terminal (wires LL and NN). For wires up to 1.5 mmq.

Wires coming from mains supply 230V 50Hz have to be connected.

LEDS AND SETTINGS

JP1 - Jumper to select voltage charge for a single 12V battery or for two 12V batteries series connected (24V).

This jumper is present only on board type 202.06.BACH1.

BI - RED led indicates battery with reversed polarity.

CB - Green led indicates battery charger in function.

OPERATION DESCRIPTION

Batteries are charged at constant voltage with current limit. Charging time depends from battery capacity and from battery charge status. Once the board is powered, CB led lights on indicating output voltage present on terminal M1.

GREEN led remains always ON, unless there is a short circuit at the output terminals.

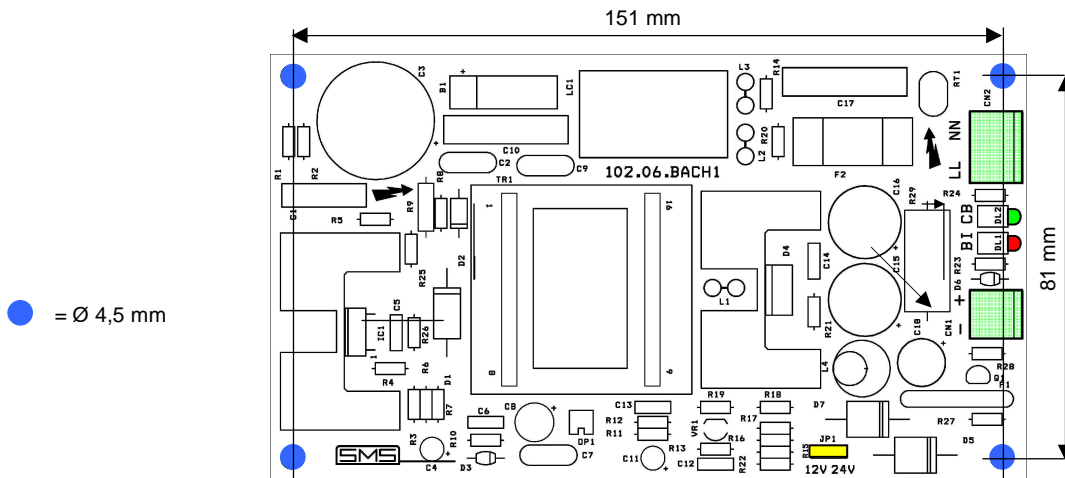
RED led lights on only if batteries are connected with reversed polarity.

Both RED led ON than GREEN led OFF indicates a bad working condition.

The persisting for a long time of a bad working condition, can permanently damage the product or the batteries.

Batteries have always to remain under charge, the current is reduced automatically by the battery charger once charging is complete.

It is recommended to interrupt both the power supply circuit that charge output, when energy is drawn from the batteries.



Board Length 160 mm, Board Width 90 mm, Board Height (max.) = 45 mm.