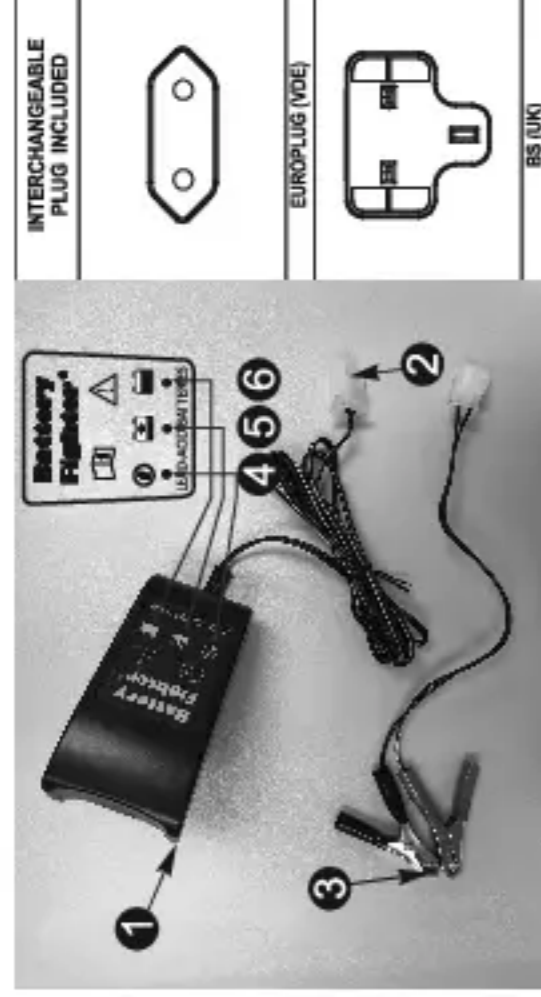




BATTERY CHARGER FIGHTER® INSTRUCTIONS FOR USE

to be carefully read before using the apparatus



Do not dispose of electric equipment together with household waste material in observance of European Directive 2012/19/EC on waste electrical and electronic equipment and its implementation in accordance with national law, electric equipment that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility. For further information on the disposal of this product, contact your dealer or a domestic waste collection service.

1 SAFETY RULES

1.1 This battery charger must only be used for keeping charged 12 Volt lead/acid batteries, either sealed (acid level maintenance free) or traditional, with a maximum capacity of 24 Ah. In exceptional cases, it can also be used for emergency charging.

1.2 Do not use the charger for charging non-rechargeable batteries.

1.3 Connect the battery charger to a power outlet which has the same voltage and frequency as that shown on the plate. The socket used must be efficient and safe.

1.4 The supply cord cannot be replaced. If the cord is damaged the appliance should be scrapped.

1.5 If extension cables are used, these must have plugs complying with laws. Place the battery charger in a stable, dry and clean location, and prevent both the battery charger and the cable from coming into contact with water or dirt.

1.6 Carry out the recharging operation at ambient temperature between 0° and 38°C, strictly complying with the recommendations shown in the instructions for using the battery and the machine in which it is fitted.

1.7 Do not use the battery charger if damaged, or in case of doubt about its efficiency after being knocked or a fall.

1.8 Do not dismantle the battery charger or alter its characteristics.

2. SUPPLY

2.1 The battery charger (1) comes with:

- a two-core cable with a connector (2) for connecting to the wiring of machines that include this possibility;
- a two-pole wire (3) with serrated-edge grips.

3. CHARACTERISTICS AND METHODS FOR USE

3.1 The battery charger has been specifically developed to keep up sealed batteries, **maintaining the charge during periods of inactivity**. Used regularly, it will assure longer life and efficiency to the battery, preventing it from being damaged by deep discharging over extended periods. By way of exception, it can also restore flat batteries to a reasonable charge level.

3.2 When it is connected, the battery charger supplies current at a constant 14.5 Volts. After 46-48 hours, a built-in timer will switch the voltage from 14.5 to 13.6 V which will assure the maintenance of the charge until such time as the battery charger is disconnected.

3.3 If the machine is only occasionally used, the battery can be

charged before and after each use, or otherwise it can even be left charging for some months between one use and another.

4. USE

4.1 If the battery is not removed from the machine, make sure that the key on the control panel is in the "OFF" position. Connect the battery charger to the mains power supply and then attach the connector (2):

- to the corresponding connector of the machine's wiring (if fitted)
- or otherwise to the wire (3) with the serrated-edge grips, attaching these to the terminals of the battery in the following sequence:
 - 1 - first the red grip to the positive terminal (+)
 - 2 - and then the black grip to the negative terminal (-).

4.2 The LED lights (4 - 5 - 6) show the type of functioning:

- 4 - Green = Battery charger live
- 5 - Yellow = Charging at 14.5 Volts
- 6 - Yellow = Maintenance charge at 13.6 Volts

Whether they are lit (●) or off (○) signals:

- normal condition:	●●○	- normal charging of a partially dis-charg-ed battery.
48 hours after being connected	●○●	- the battery is on maintenance charge.
- particular conditions:		
●●○		- the battery has already been sufficiently charged before the 48 hours
●○●		- possible inversion of terminals in connecting the grips;
●○●		- the battery is in a deep discharge condition and is being slowly regenerated. The true charging takes place when the LED (5) lights up after a few hours.
●●●		- the battery is insufficiently recharged in the 48 hours and requires a second charging cycle by disconnecting and re-connecting after 5 seconds the battery charger to the mains power supply. When another 24 hours have passed, if the LED (5) does not go out it means that the battery is damaged beyond repair and cannot take the recharge.
○○○		- the thermal protection device has cut in.
○○○		- no power being supplied or battery charger faulty.

4.3 The battery charger has a thermal protection device against overcharging, also protecting from short circuits and reversal of terminals. In addition, if unconnected to the battery, the connector or the grips will not be live. If the thermal protection has cut in, the power supply is stopped, restarting automatically after about 30 seconds. An increase in temperature both when recharging and when maintaining the charge is a normal operating condition.

4.4 To disconnect the battery charger, reverse the order of the operations given at point 4.1. After use, do not leave the battery charger disconnected from the mains supply and connected to the battery to prevent the battery from discharging.

5. TECHNICAL DATA

- Voltage and frequency of the power supply: 100-240V ac (± 6%) / 50/60 Hz. • Output voltage: 14.5 V dc (charging) / 13.6 V dc (maintenance). • Max output current: 1.0 A.

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