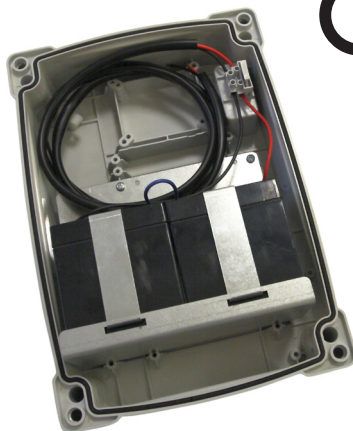
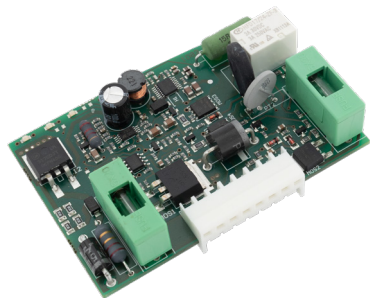




IS276 Rev.00 10/10/2023

B71/BCHP HW02

Scheda caricabatterie per

EDGE1-B70/1DCHP-B70/1THP

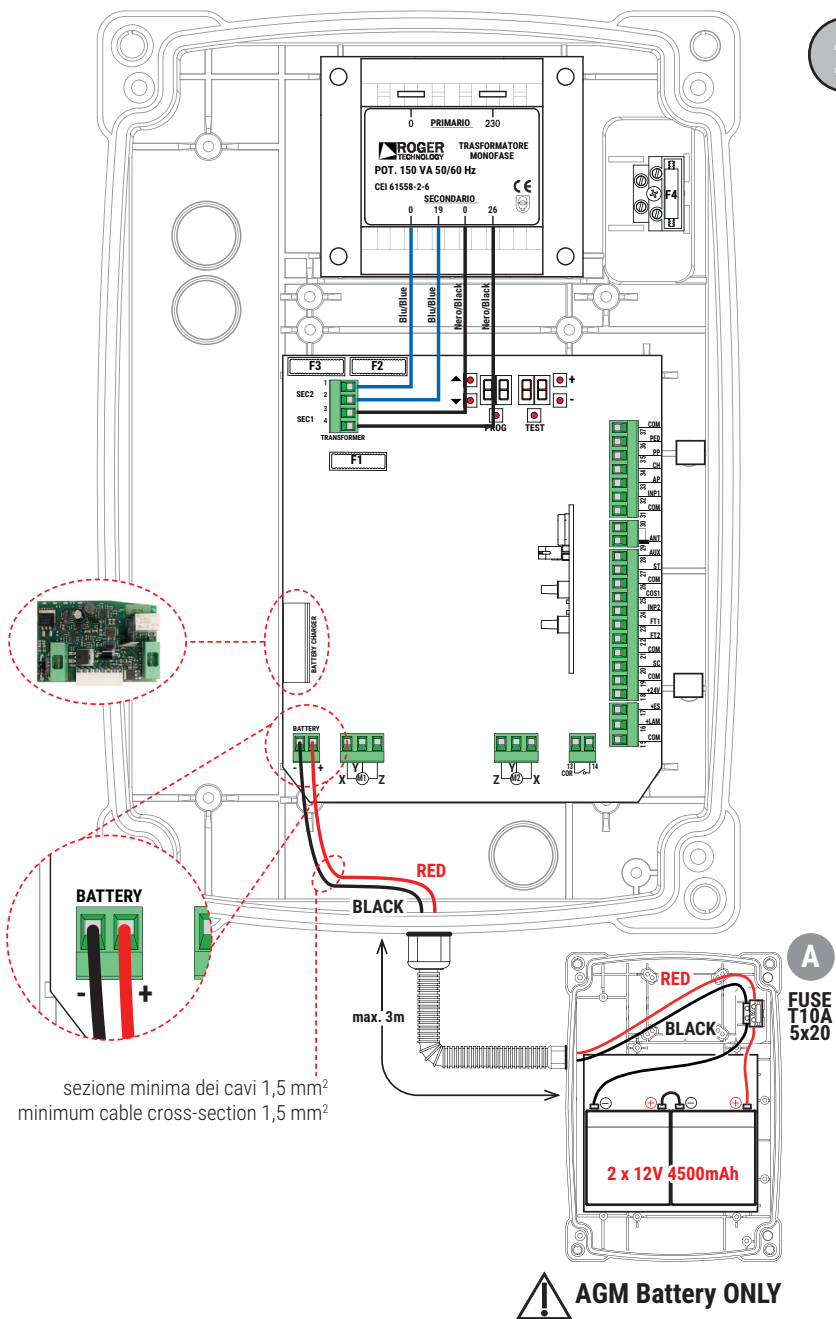
Istruzioni originali



IT - Istruzioni ed avvertenze per l'installatore
EN - Instructions and warnings for the installer
DE - Anweisungen und Hinweise für den Installateur
FR - Instructions et consignes pour l'installateur
ES - Instrucciones y advertencias para el instalador
PT - Instruções e advertências para o instalador

EDGE1 - B71/BCHP/EXT

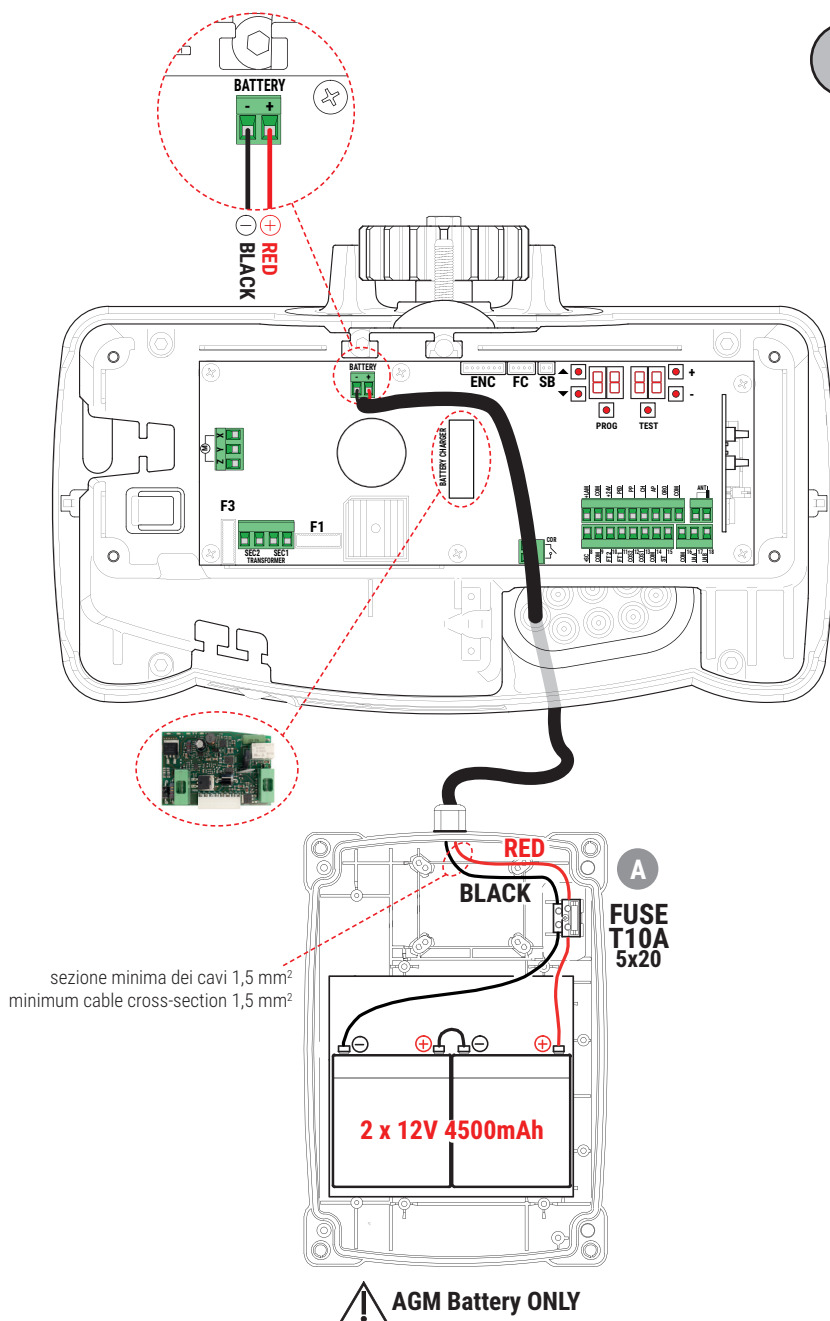
2



⚠ AGM Battery ONLY

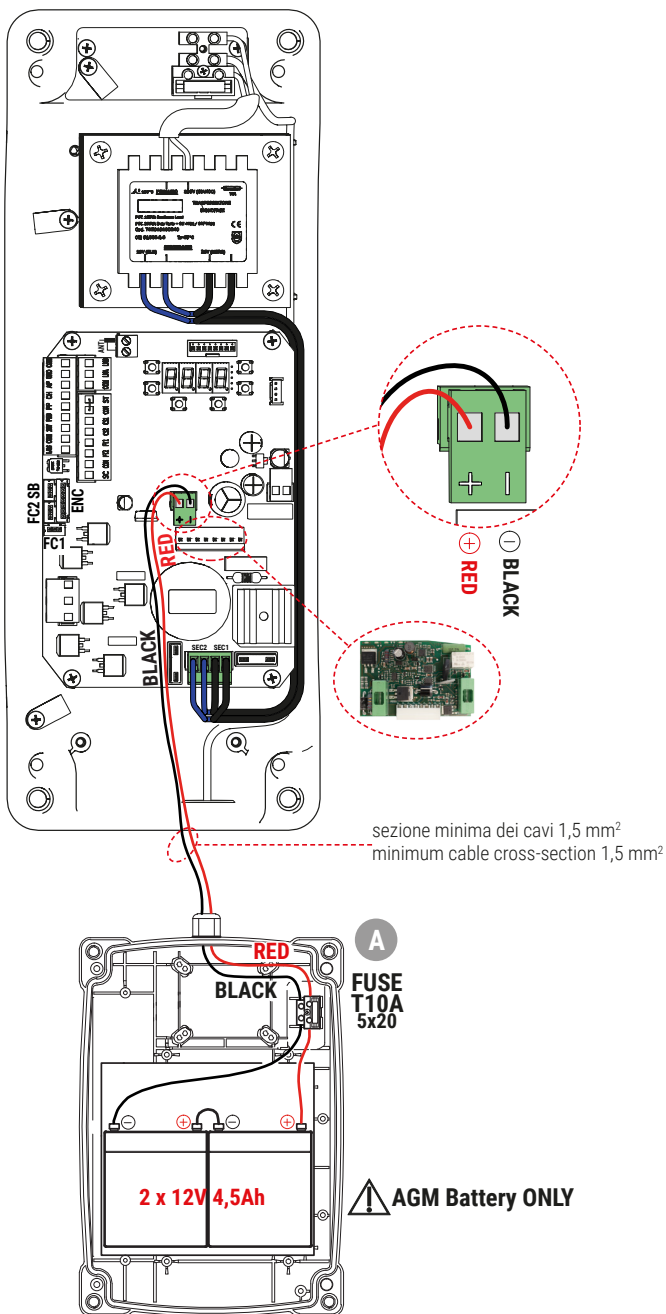
B70/1DCHP - B71/BCHP/EXT

3



B70/1THP - B71/BCHP/EXT

4



sostanze inquinanti o pericolose, se disperse potrebbero provocare effetti dannosi sull'ambiente e sulla salute umana.

12 Informazioni aggiuntive e contatti

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Skype: [service_rogertechnology](https://www.skype.com/name/roger-technology)

13 Dichiarazione di Conformità

Il sottoscritto, rappresentante il seguente costruttore:

Roger Technology - Via Botticelli 8, 31021 Bonisiolo di Mogliano V.to (TV)

DICHIARA che l'apparecchiatura descritta in appresso:

Descrizione: batterie e carica batterie

Modello: **B71/BCHP**

È conforme alle disposizioni legislative che traspongono le seguenti direttive:

- 2014/35/UE;
- 2014/30/UE;
- 2011/65/UE

E che sono state applicate tutte le norme e/o specifiche tecniche di seguito indicate:

EN 61000-6-3;
EN 61000-6-2;
EN 60335-1

Luogo: Mogliano V.to

Data: 24-03-2017

Firma



1 General safety precautions



Warning: incorrect installation may cause severe damage or injury. Read the instructions carefully before installing the product.

This installation manual is intended for qualified personnel only. ROGER TECHNOLOGY cannot be held responsible for any damage or injury due to improper use or any use other than the intended usage indicated in this manual.

Installation, electrical connections and adjustments must be performed by qualified personnel, in accordance with best practices and in compliance with applicable regulations.

Before installing the product, make sure it is in perfect condition.

Disconnect the mains electrical power before performing any work. Only use original spare parts when repairing or replacing products.

The packaging materials (plastic, polystyrene, etc.) should not be discarded in the environment or left within reach of children, as they are a potential source of danger.

2 Symbols

The symbols and their meaning in the manual or on the product label are indicated below.

	Generic danger Important safety information. Indicates operations and situations in which the personnel involved must pay close attention.
	Refer to the Installation and use instructions Indicates the obligation to refer to the manual or original document, which must be available for future use and must not be damaged in any way.
	Indicates the admissible temperature range.
	Direct current (DC)
	Symbol for the product disposal according to the WEEE directive.

3 Product description

The **B71/BCHP HW02** battery charger board may be used to charge two 12V --- 4500 mAh lead acid batteries connected in series.

In the event of mains power loss, the battery charger provides auxiliary power to the control unit (**EDGE1**, **B70/1DCHP** or **B70/1THP**).

In addition, it performs the function of limiting the overvoltage generated, on the DC supply of the motor, during braking phases (High Speed or Reversible motors only).

Two battery kits are available, complete with battery charger board and two 12V --- 4500 mAh batteries and box, available is **B71/BCHP/EXT**.

4 Technical characteristics

MAINS POWER VOLTAGE	36V $\overline{---}$
MAXIMUM POWER ABSORPTION	15 W
LEAD ACID BATTERIES	2x12V $\overline{---}$ 4500 mAh
FUSES	F1 = F2A (5x20 rapid) power circuit protection F2 = F10A (5x20 rapid) battery charger output protection F3 = T10A (5x20 delayed) battery protection (detail A)
NOMINAL CHARGING VOLTAGE	27,6V $\overline{---}$
MINIMUM BATTERY VOLTAGE FOR SELF-PROTECTION	19,5V $\overline{---}$
CHARGE CURRENT	400 mA
VOLTAGE LIMITER	Self-protected with PTC. Activation at 51V $\overline{---}$, deactivation at 48V $\overline{---}$
OPERATING TEMPERATURE	$\overline{---}$ -20°C $\overline{---}$ +55°C
DEGREE OF PROTECTION	IP00
DIMENSIONS B71/BCHP	88x64mm Weight 46g
DIMENSIONS HT418	320x230x120 Weight 4,8kg

5 Electrical connections for B71/BCHP/EXT (fig. 2-3-4)

1. Disconnect mains power supply.
2. Remove the faston from the positive (+) pole of the batteries.
3. **ATTENTION!** Wait 3 minutes so that the motor supply voltage goes to zero.
4. Plug the battery charger into the BATTERY CHARGER connector.
5. Fasten the battery kit (**B71/BCHP/EXT**) wall-mounted at a distance of no more than 3 m from the control unit, or install it inside the barrier, and connect the batteries to the control unit with a 1.5 mm 2 core cable not longer than 3 m.
6. Connect the red wire to the **BATTERY (+)** terminal of the control unit and to fuse **F3** integrated in the housing (detail **A**). This connects the positive terminal to circuit in serial with the fuse.
7. Connect the black wire to the **BATTERY (-)** terminal of the control unit and to the terminal block adjoining the fuse **F3**.
8. Reconnect the Faston connector to the battery terminal (+) of the battery.

ATTENTION! Failure to follow directions 1,2,3 can irreversibly damage the charger.

The damage can be seen in the following way: with batteries disconnected, charger plugged into the connector and mains voltage present, the voltage measured at the (+) and (-) terminals of the control unit is 0V (open circuit) or a few volts (thermal protection activated).

In both cases, the battery charger must be replaced.



For further information see the manual of the control unit (EDGE1, B70/1DCHP or B70/1THP)

6 Alerts

LED		ON	OFF
DL1	yellow	Batteries charging. If the LED remains lit even after charging for a few days, consider changing the batteries.	/
DL2	red	Incorrect battery connection. Circuit breaker tripped. Identify the cause and rectify the problem immediately.	/
DL3	green	Mains power present.	Mains power absent.
DL4	red	Flashing briefly: activation of the voltage limiter. Steady light: limiter damaged.	Correct motor supply voltage, or motor at standstill.

7 Functioning of the battery charger

When mains voltage is available (green LED DL3 lit), the circuit delivers the batteries with a maximum current of 450mA to ensure charging (1/10C for 4.5Ah batteries). The yellow LED **DL1** lights when the **B71/BCHP** is charging the batteries.

N.B.: if charged batteries are disconnected briefly and reconnected, the yellow LED **DL1** may light temporarily.

If there is no mains power (LED **DL3** off) and the battery voltage drops below the safety threshold, the battery charger automatically disconnects the batteries from the control unit.

N.B.: in the event of prolonged periods with no mains power, we recommend disconnecting the positive terminal (+) (red wire) from the battery circuit to prevent battery damage.

The red LED **DL2** lights to indicate a battery connection error. As in this situation the circuit is disconnected by the circuit breaker, it is imperative that the fault is identified and the problem rectified immediately.

8 Operation of the voltage limiter

When braking, the **High Speed** or **Reversible** motor generates a rise in the motor supply voltage due to the dynamo effect, which is intercepted by the voltage limiter. When the voltage reaches 51V it triggers a current absorption that rapidly reduces it, and this is repeated for a few quick pulses. The pulses are indicated by the simultaneous switching on of the **red 'CLAMP' LED**.

The LED is normally off, when the motor is at a standstill or in normal operating conditions; if it is always on, it means that there is damage in the voltage limiting section, i.e. the PTC thermal protection has been activated, which disconnects the device from the motor power supply, and at the same time an overload has been forced on the 24V voltage, blowing the relevant fuse.

The control unit is therefore switched off, and replacing the 24V protection fuse will blow it again; therefore proceed as follows:

1. cut off the power supply
2. disconnect the battery terminal block

3. wait 3 minutes to discharge the motor circuit voltage
4. remove B71/BCHP from the connector
5. replace the fuse
6. re-energize the power supply and check that the control unit switches on

Having confirmed the damage on the B71/BCHP, proceed with its replacement, always following the safety instructions indicated in paragraph 5, points 1,2,3,4.

9 Initial testing

Disconnect from the mains power supply. The LED **DL3** should extinguish.

Perform a complete open manoeuvre and a complete close manoeuvre and check that the installation functions correctly under battery power.

Reconnect to mains power and check that the LEDs **DL1** and **DL3** illuminate.

Check that the **DL4** LED is off when the motor is stopped. Only for **B70/1DCHP** and **B70/1THP** control units with High Speed or Reversible motors: with the leaf moving at the maximum speed selected, activate the STOP command, or the sensitive edge, and check that **DL4** makes a few rapid flashes, signalling that the voltage limiter has been activated.

NOTE: If the speed is low, or if the inertia of the sliding sash is low, the DL4 LED may not even flash.

10 Maintenance

Perform scheduled maintenance every 6 months.

Check cleanliness and function.

If the unit contains dirt, moisture, insects or other foreign matter, disconnect from mains power and clean the board and the housing.

Repeat the initial installation test procedure after cleaning.

If any corrosion is found on the printed circuit board, evaluate if it is necessary to replace the board itself.

Check battery charge by performing a complete open/close manoeuvre and measuring the output voltage from the batteries.

A battery pack in good condition must maintain a minimum voltage of at least 22V⁻⁻⁻.

Replace the batteries at least every 3 years.

11 Disposal



This product may only be uninstalled by qualified technical personnel, following suitable procedures for removing the product correctly and safely. This product consists of numerous different materials. Some of these materials may be recycled, while others must be disposed of correctly at the specific recycling or waste management facilities indicated by local legislation applicable for this category of product.

Do not dispose of this product as domestic refuse. Observe local legislation for differentiated refuse collection, or hand the product over to the vendor when purchasing an equivalent new product.

Local legislation may envisage severe fines for the incorrect disposal of this product.

Warning! Some parts of this product may contain substances that are harmful to the environment or dangerous and which may cause damage to the environment or health risks if disposed of incorrectly.

12 Additional information and contact details

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Skype: service_rogertechnology

13 Declaration of Conformity

I the undersigned, as acting legal representative of the manufacturer

Roger Technology - Via Botticelli 8, 31021 Bonisiolo di Mogliano V.to (TV)

hereby DECLARE that the appliance described below:

Description: Battery and battery charger

Model: **B71/BCHP**

Is conformant with the legal requisites of the following directives:

- 2014/35/UE;
- 2014/30/UE;
- 2011/65/UE

and that all the standards and/or technical requirements indicated as follows have been applied:

EN 61000-6-3;
EN 61000-6-2;
EN 60335-1

Place: Mogliano V.to

Date: 24-03-2017

Signature

Andrea Di



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