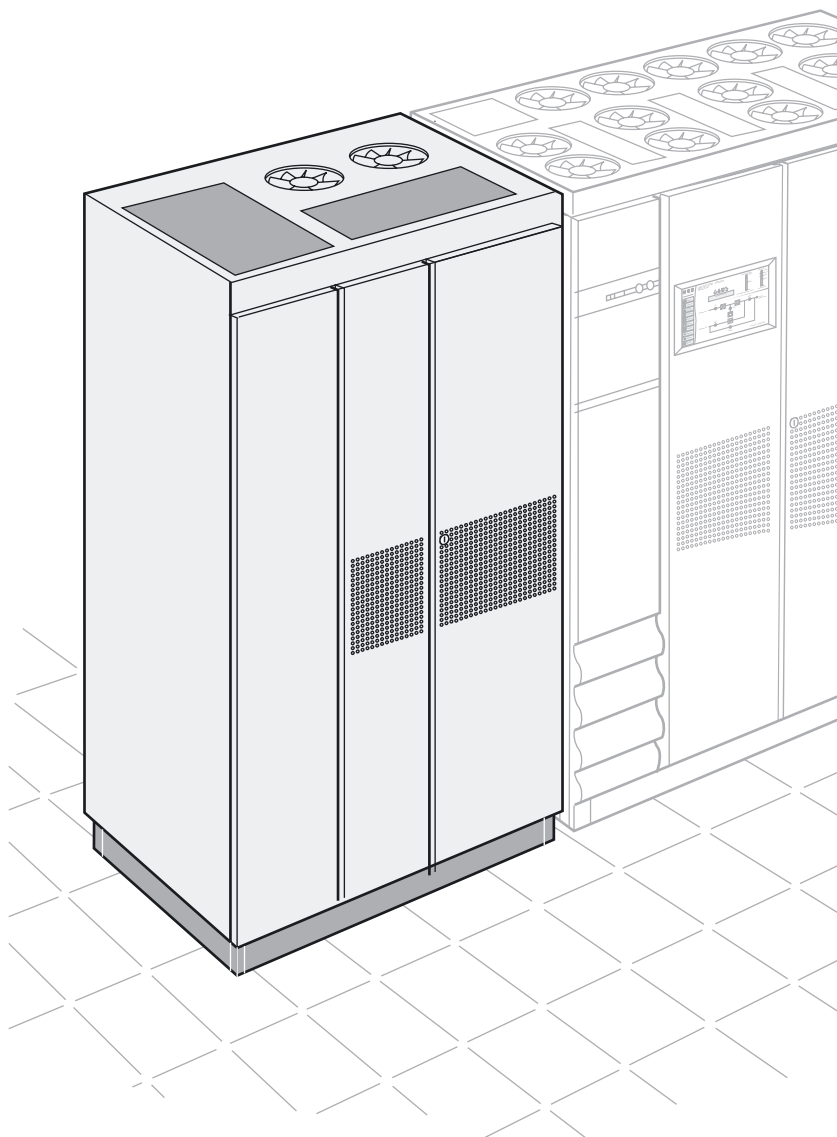


MGE™ Galaxy™ 9000

Double-bridge
rectifier-charger

50 Hz

Installation manual



Characteristics

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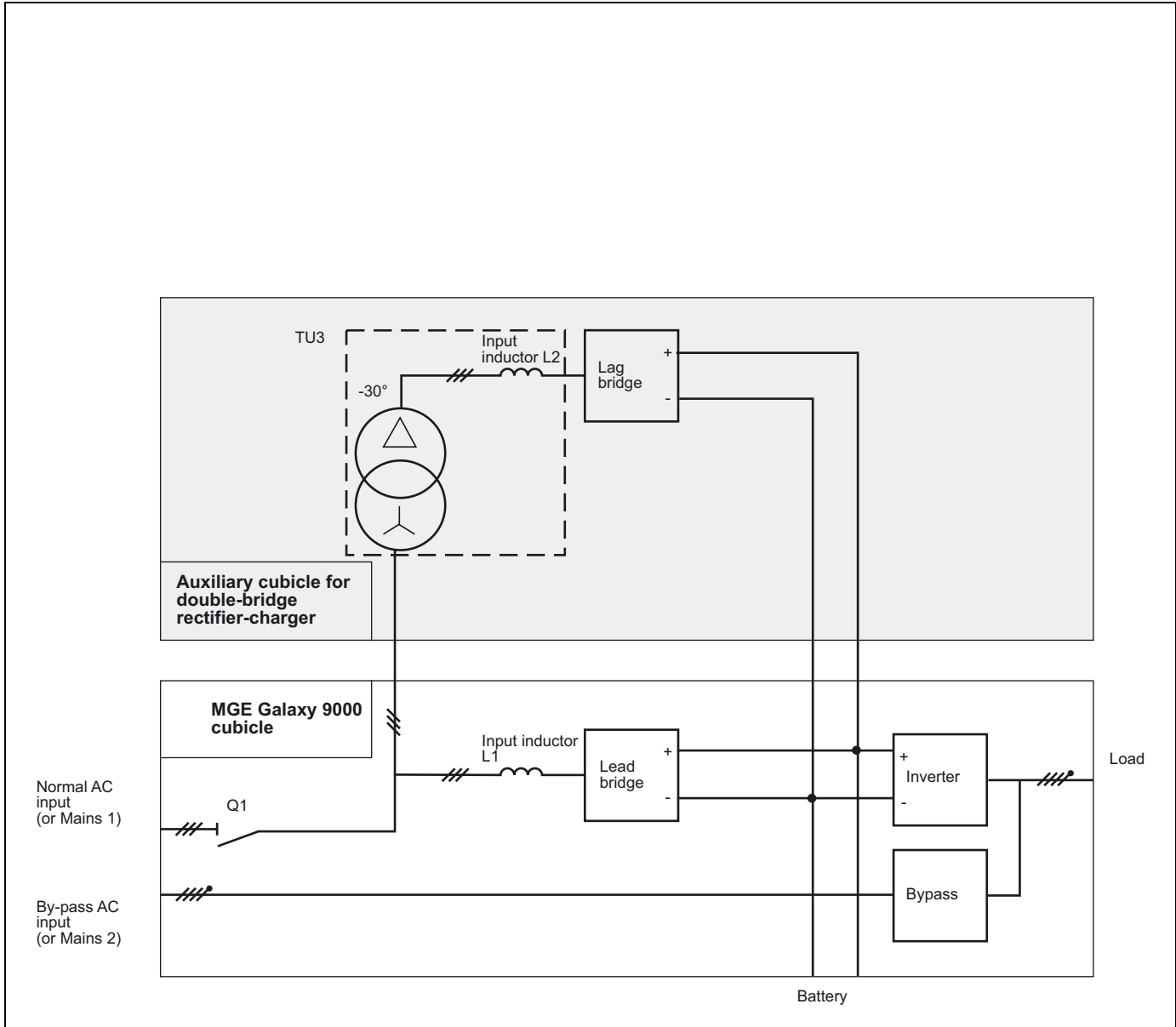
Electrical characteristics

General

This option comprises a transformer that deliver voltage that is shifted -30° with respect to the utility voltage and supplies the standard rectifier-charger located in the auxiliary double-bridge cubicle via input inductor L2.

A second rectifier-charger located in the **MGE™ Galaxy™ 9000** cubicle is supplied by the utility voltage via input inductor L1. The DC+ and DC- bus supplying the inverter is connected to the outputs of the two rectifier-chargers.

Schematic diagram with the double-bridge rectifier-charger option



Heat losses, cable cross-sections

The table below indicates the value of the heat losses generated by the auxiliary cubicle containing the doublebridge rectifier-charger and the main **MGE™ Galaxy™ 9000** Cubicle.

Thoses losses are useful for calculating ventilation requirements.

Continuity of earth between cubicles must be carried out using the supplied braided cables..

Rated inverter Output	Additional heat losses	
	in kW	in calories / second
800 kVA	54	12096
900 kVA	55	13145

Mechanical characteristics

Cubicle dimensions and weight

Rated inverter Output	cubicle dimensions in mm			Cubicle weight in kg
	Width	Height	Depth	
800 kVA	800	2000	8400	1200
900 kVA	800	2000	8400	1200

Installation

Auxiliary cubicle installation



Place cubicles side by side at the same level screwing in or out the four feet.

Consult the **MGE™ Galaxy™ 9000** installation manual (No. 34006451EN) for indications on handling and installing the auxiliary cubicle containing the double-bridge rectifier-charger for **MGE™ Galaxy™ 9000**.
Of particular importance are the following sections:

- "characteristics common to allcubicles";
- "preparation";
- "permanent installation";
- "dismantling the pallett";
- "cubicle ground bearing surface";
- "layout of cubicles on computer flooror flat ground".

The double-bridge rectifier-charger cubicle is an auxiliary cubicle that must be positioned immediately to the left of the main **MGE™ Galaxy™ 9000** UPS cubicle.

Connections should not be undertaken before the cubicle has been installed in its final operating position.

Cubicle ventilation is of the forced-air type with air input through the front and output through the top of the unit (a free space of 400 mm must be maintained above the cubicles to ensure correct evacuation).

General schematic

Connect the three normal AC source (or mains 1) phase cables to the **MGE™ Galaxy™ 9000** cubicle terminal block. All the necessary connections between the auxiliary cubicle and the **MGE™ Galaxy™ 9000** cubicle (power and auxiliaries) are supplied.

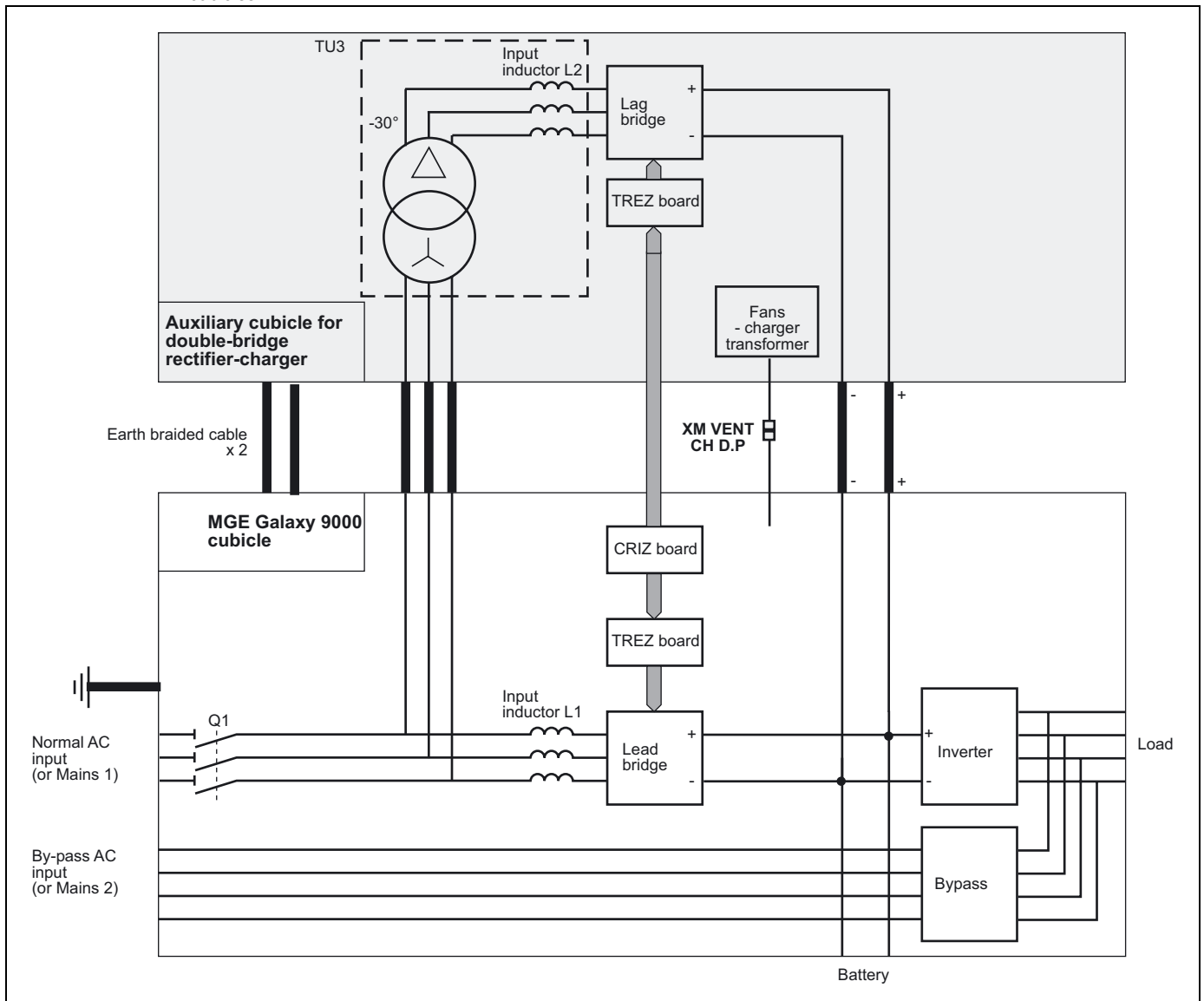
Other power connections:

the three phases between the normal AC source (or mains 1) and lag transformer's primary Y located in the double-bridge rectifier-charger cubicle;

the double-bridge auxiliary cubicle's lag bridge's + and - polarities between the DC bus supplying the inverter and the battery in the **MGE™ Galaxy™ 9000** cubicle.

Auxiliary connections:

one ribbon cable between the CRIZ board in the auxiliary cubicle and the TREZ board in the **MGE™ Galaxy™ 9000** cubicle;
one supply cable for fans of auxiliary cubicle lag bridge charger via the XM VENT CH D.P connector located between the two cubicles..



Installation

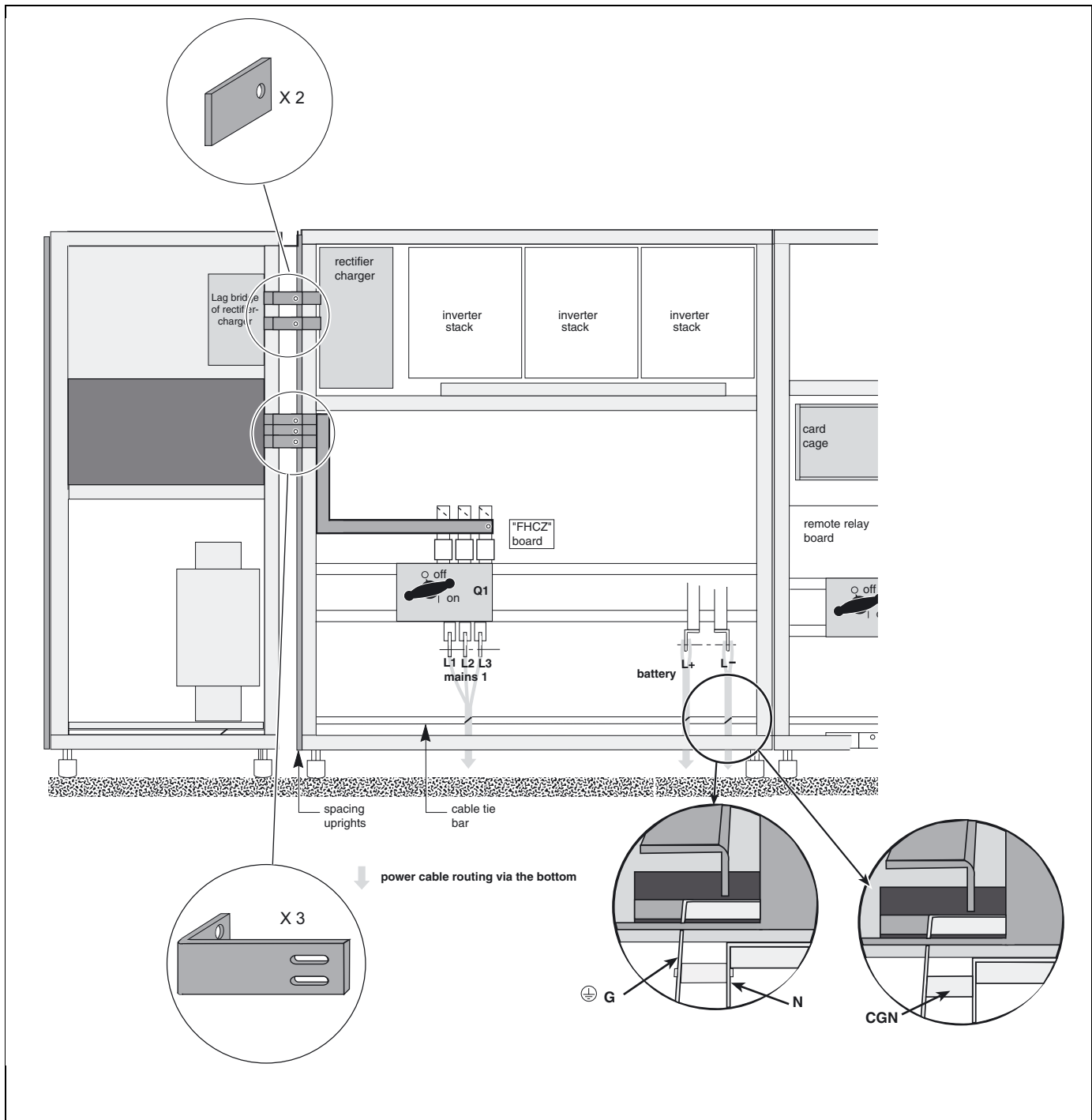
Power connections

position of cubicle connection points.

Paths for connection cables.

Connect, as indicated in the figure below:

- the three normal AC source phase cables L1, L2, L3 to the terminal block in the auxiliary cubicle (4 x 30 mm copper terminals with 10 mm holes);
- the two + and - polarity connections;
- the earthing bar in the auxiliary cubicle to the earthing bar in the **MGE™ Galaxy™ 9000** rectifier-inverter cubicle using the supplied braided cables. accorder comme indiqué sur la figure suivante :



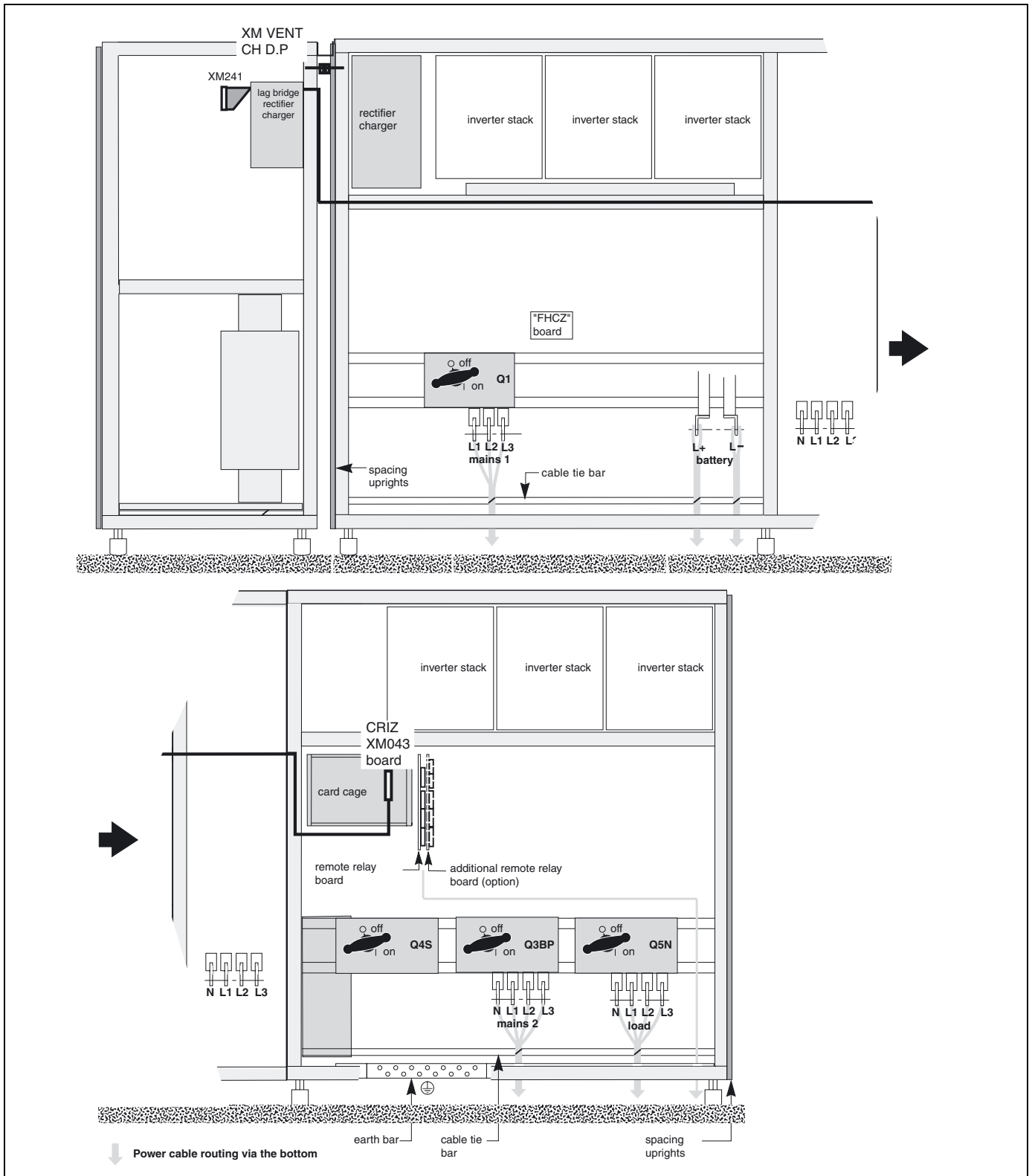
Auxiliary connections

position of cubicle connection points.
paths for connection cables and bars.

Connect, as indicated in the figure below:

- the connector on the ribbon cable from the **CRIZ** board in the **MGE™ Galaxy™ 9000** cubicle to connector **XM241** on the lag bridge in the auxiliary cubicle;

- connector **XM VENT CH D.P.** of the lag bridge charger fans supply cable between the auxiliary cubicle and the **MGE™ Galaxy™ 9000** cubicle.



Installation

Inter-cubicle roof plate installation

Hold the roof plate (supplied) between the cubicles to protect the connections.

