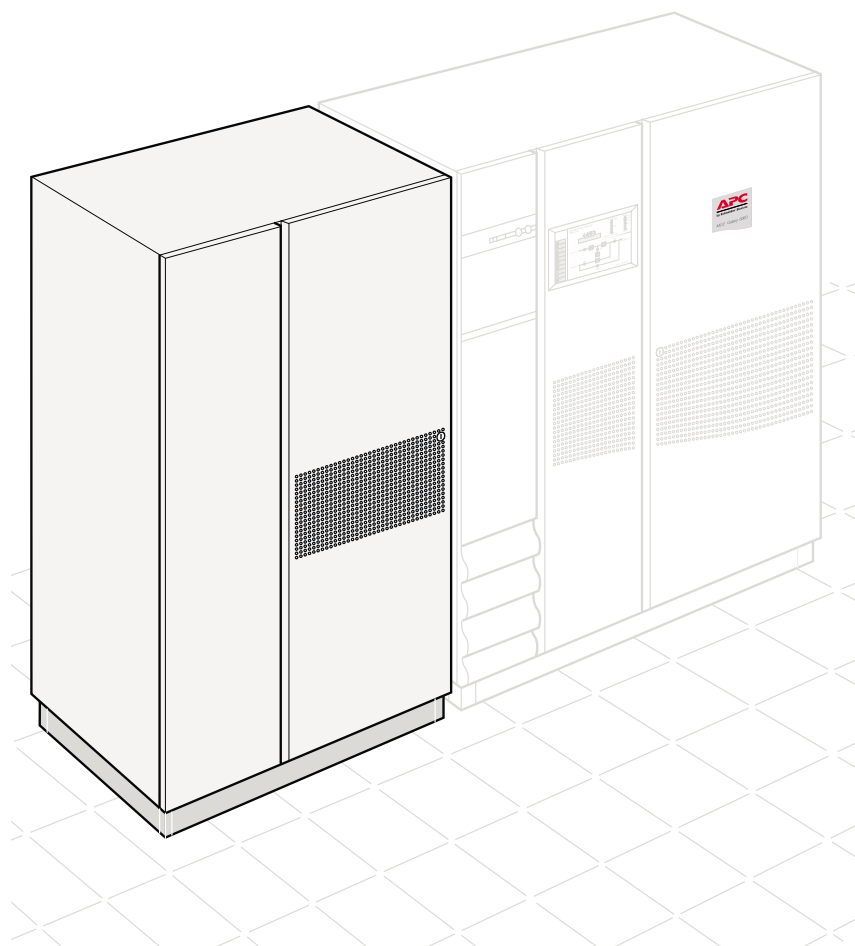


MGE™ Galaxy™ 9000

50, 60 Hz
800 – 900 kVA

Installation manual

Battery circuit-breaker cabinet



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1. Installation

Refer to **MGE™ Galaxy™ 9000** installation manual n° 3400645100 for the handling and installation of **MGE™ Galaxy™ 9000** cubicles.

In particular, see the following sections:

- "characteristics common to all cubicles" ;
- "handling" ;
- "positioning the cubicles" ;
- "removing the pallet" ;
- "floor loads" ;
- "cubicle layout on false floor or normal floor".

2. Characteristics of cabinet

- the characteristics of the cabinets indicated in the tables below are valid for a linear load charge with power factor of 0.8 and a minimum battery voltage set to 335 V on the inverter side (340 V on the battery side);
- the recommended cable cross-sections are applicable to U1000R02V type copper conductors. They are calculated in relation to permissible temperature rises and take into account a maximum line voltage drop of 1 % for a maximum cable length of 25 m. For greater cable lengths, cross-sections will be chosen to keep the voltage drop within 1 %.

Note:

the battery circuit breaker cabinet includes a battery current smoothing inductor (this inductor is in the rectifier-inverter cubicle).

2.1 Mechanical characteristics of cabinet

Battery backup time - 10 mn

Inverter rated power in kVA	Cabinet without insulation monitor Dimensions in mm			Weight in kg	Max.cable cross-section in mm ²	
	H	W	D		Copper	Aluminium
800	1900 ±10	600 -0/+10	840	210	3 x 240	3 x 400
900	1900 ±10	600 -0/+10	840	210	3 x 240	3 x 400

Note:

the width of the vertical side clearance bars (25 mm) on each side must be added to the indicated cubicle width, i.e. 50 mm in all per cubicle. This applies to all cubicle installation cases. Cubicle widths have been rounded off to the nearest cm.

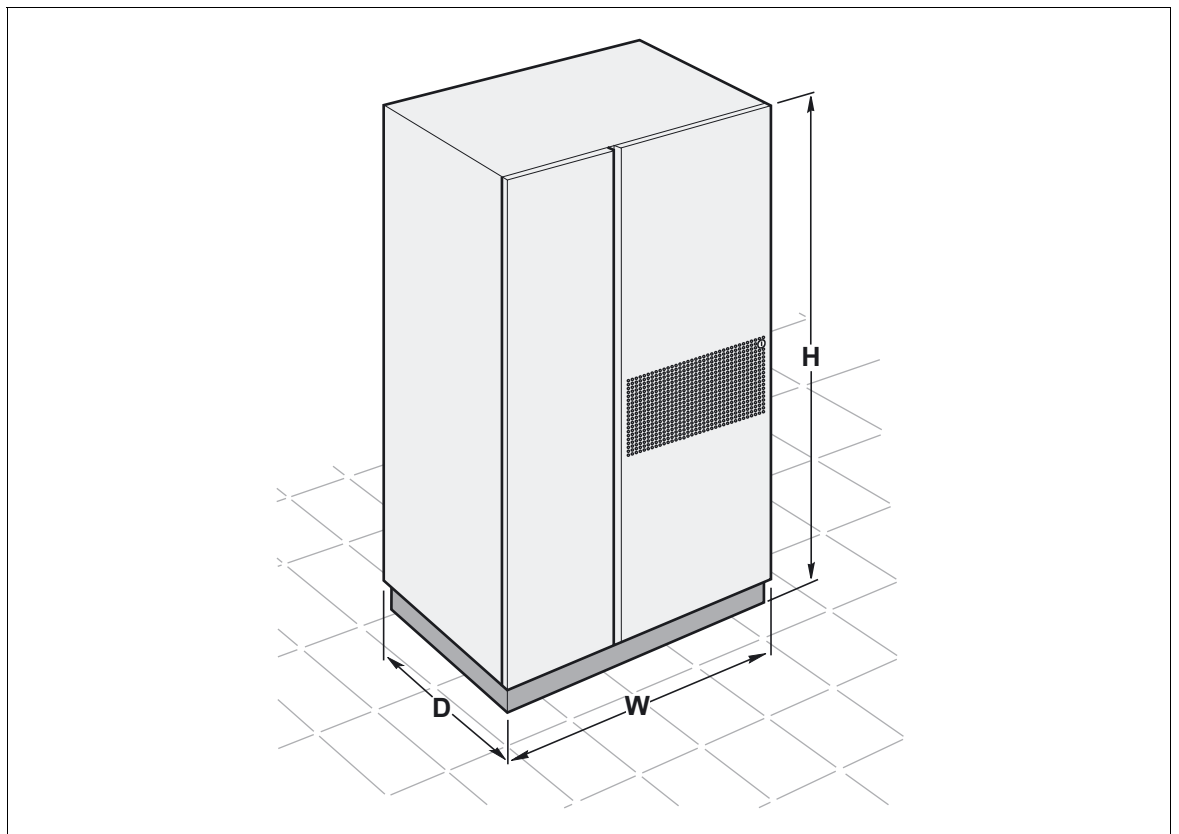


Fig. 1

2.2 Electrical characteristics of cabinet

Inverter rated power in kVA	QF1 circuit-breaker		
	Type	Release	Magnetic setting
800	NW20DC	C position	4000 A
900	NW20DC	C position	4000 A

3. Connection

3.1 Connection points

Cabinet for MGE™ Galaxy™ 9000 of 800 kVA and 900 kVA (-10 min), see figure 2 :

- connection to the battery on 80 x 20 mm copper terminals with three 16 mm diameter holes ;
- connection to the inverter on 80 x 20 mm copper terminals with four 13 mm diameter holes ;
- earth connection on 50 x 5 mm copper terminals with two 12 mm diameter holes.

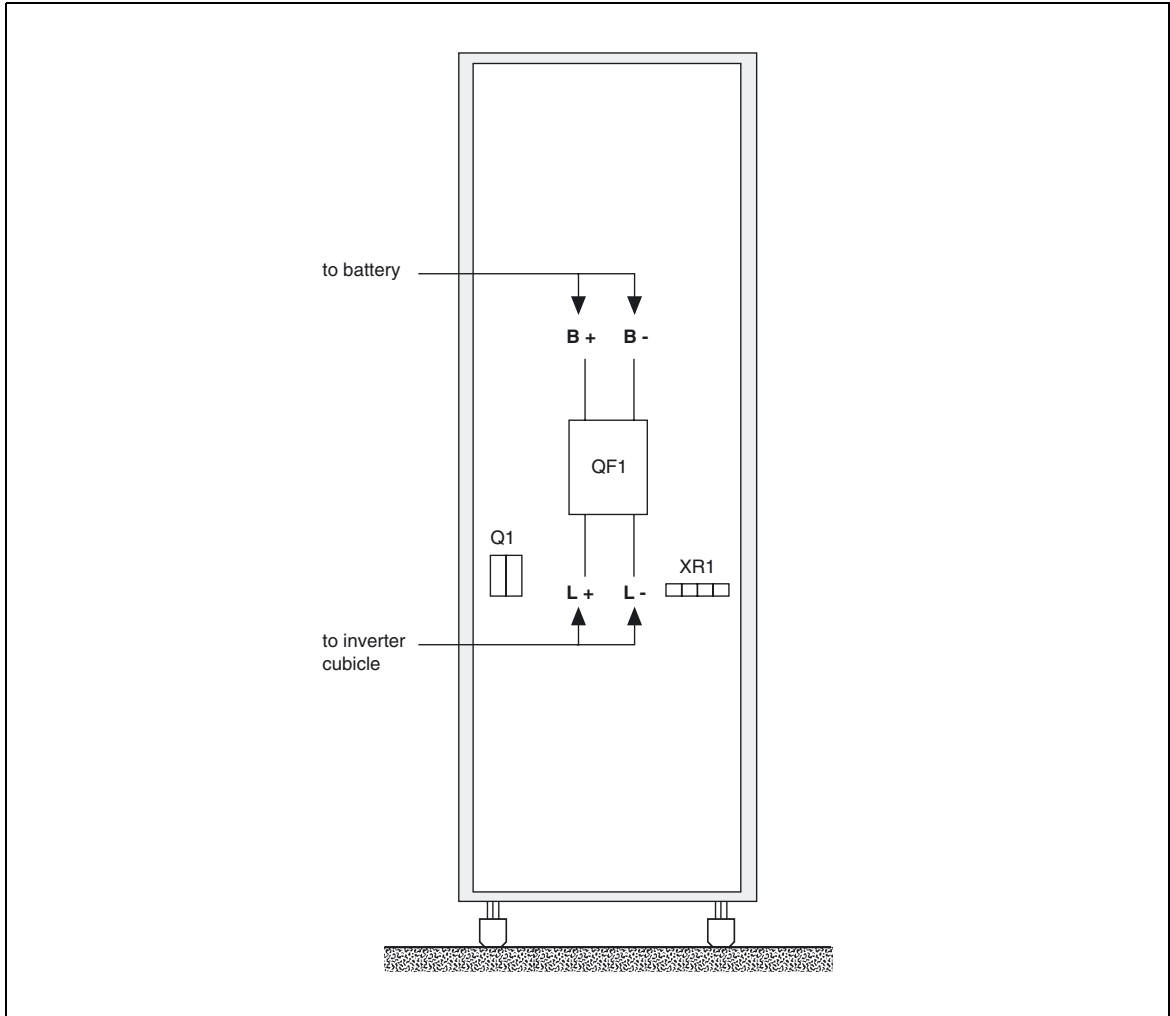


Fig. 2

3.2 Connection diagrams

- the cross-section of the power cables is given in the tables in the section entitled "characteristics of cabinet";
- recommended cross-section of auxiliary conductors: 1 mm² (terminal acceptance capacity: 2.5 mm²);
- make sure that the auxiliary conductors and power cables do not follow the same path;
- power cables and auxiliary conductors are not supplied.

Important:

leave the QF1 circuit-breaker in "off" position until the **MGE™ Galaxy™ 9000** unit has been commissioned.

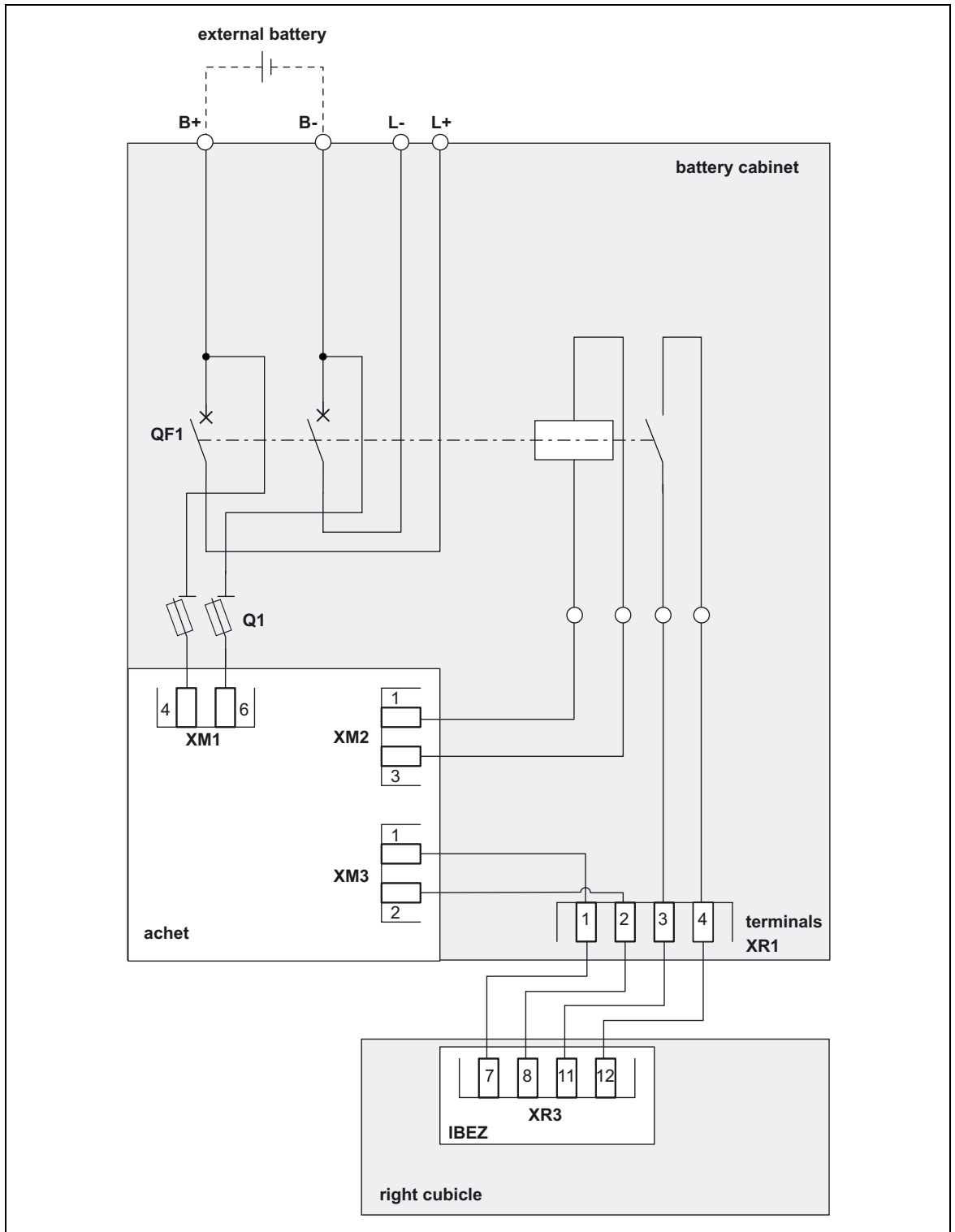


Fig. 3

3. Connection

MGE™ Galaxy™ 9000 UPS

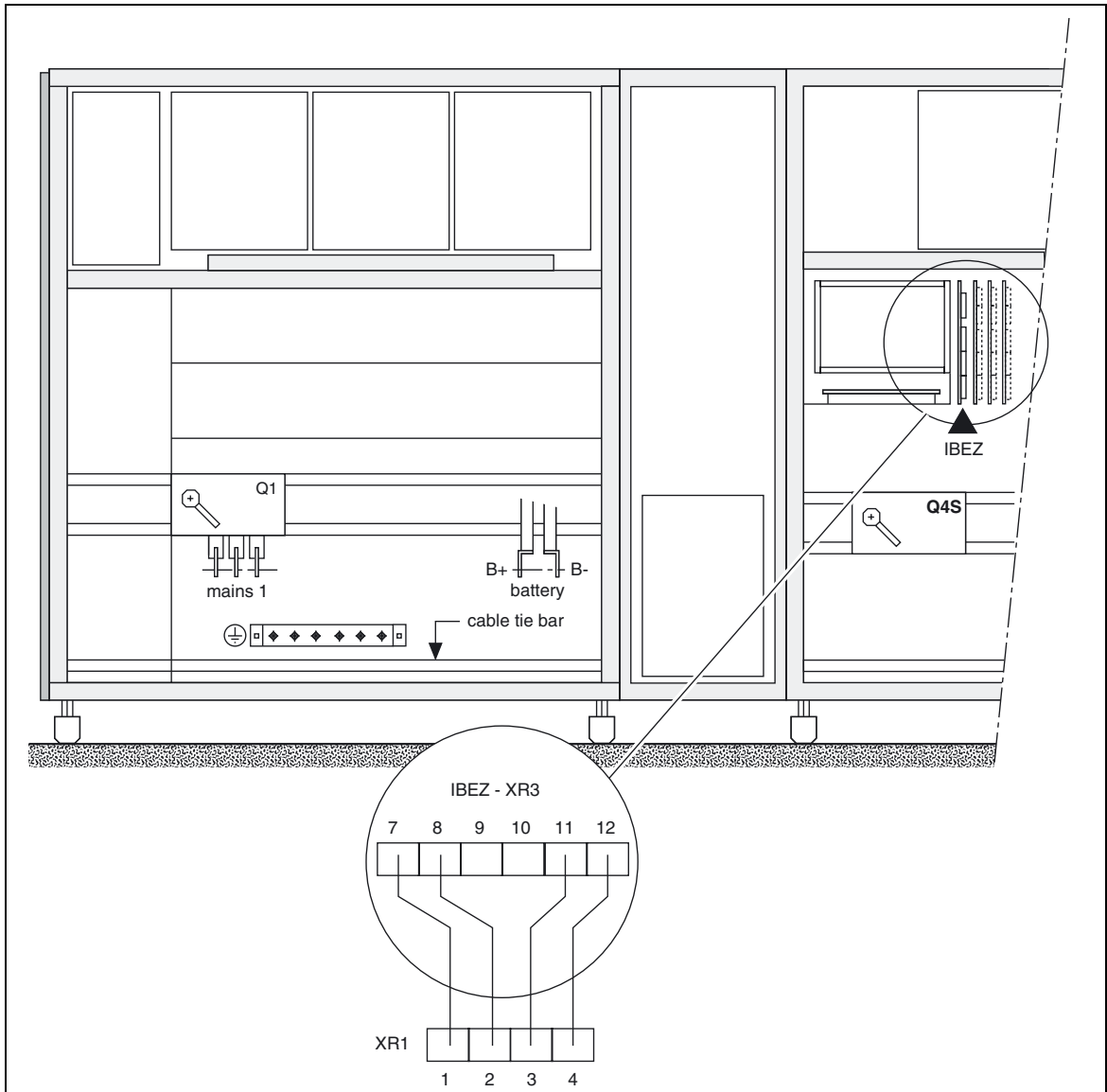


Fig. 4