

Roger Access Control System

ME-2-D v1.1

Metal Enclosure

Document version: Rev. A



1. DESCRIPTION AND SPECIFICATION

Metal enclosure ME-2-D is designed for the installation of devices and electronic modules adapted to fixing on DIN 35mm (T35mm) rail. The enclosure offers three rails with a length of 277mm, tamper contact and place for dry gel battery 12V/17Ah. Enclosure includes 13.8VDC/5A buffer power supply unit and fuse block. Basically, ME-2-D was designed for RACS system however, it can be also used with 3rd party devices. The enclosure can accommodate access controllers, network controller, communication interfaces and I/O expanders in various arrangements.

2. INSTALLATION

ME-2-D should be installed on a vertical part of construction in location protected against moisture and dust, ensuring nominal operating conditions required for the enclosure and internal devices. The 230VAC power supply cable must enter the enclosure through the dedicated cable bushing. Protective Earth (yellow-green) cable should be connected to ground terminal.

3. ME-2-D SET

ME-2-D set includes metal enclosure and following devices:

- Buffer switch mode power supply unit PSG2-12V5A (13.8/5A/OC)
- Fuse block for power distribution LB5/AW (AWZ536)

These devices must be installed by your own according to fig. 1 and included manuals provided by their manufacturer (Pulsar Sp.j.).

PSG2-12V5A PSU is designed for uninterrupted supply and is not equipped with power supply switch. The selection of the battery charging current is made with a jumper (installed: 1A, removed: 2A). PSU supply circuit must be equipped with adequate overload protection and enable easy disconnection from the 230VAC mains without modifications of existing wiring. It is necessary to instruct the end user on the method of disconnecting from the mains, e.g. by means of designated fuse in switchboard. Electrical installation must be completed in accordance with valid regulations and standards. 230VAC power supply cable must enter metal enclosure through dedicated bushing and then connected to 230VAC L-N terminals. Protective Earth (yellow-green) cable should be connected to ground terminal.

Table 1. ME-2-D specification	
Parameter	Value
Supply voltage	230VAC (+/- 15%), 50Hz
PSU	Buffer power supply unit with battery and mains monitoring
PSU output voltage	13.8VDC
PSU output current	Max. 5A (including battery charging current)
Battery charging current	1/2 A (jumper selection)
Tamper contact	30VDC/0.5A
Power distribution	Fuse block for power distribution, 5 power outputs protected independently with 0.5A or 1.0A fuses
Environmental conditions	-10C..+40C, relative humidity 10-90% (no condensation)
Dimensions (H x W x D)	403 x 326 x 130 mm
Weight	3.5 kg



Caution: The ME-2-D set should be installed by a qualified person with valid permits and licenses for 230VAC mains and low-voltage installations.

Prior to installation and maintenance, it is necessary to make sure that 230VAC is disconnected. It is forbidden to use this equipment without fully operational electric shock protection circuit otherwise it may cause damage to device and/or electric shock.

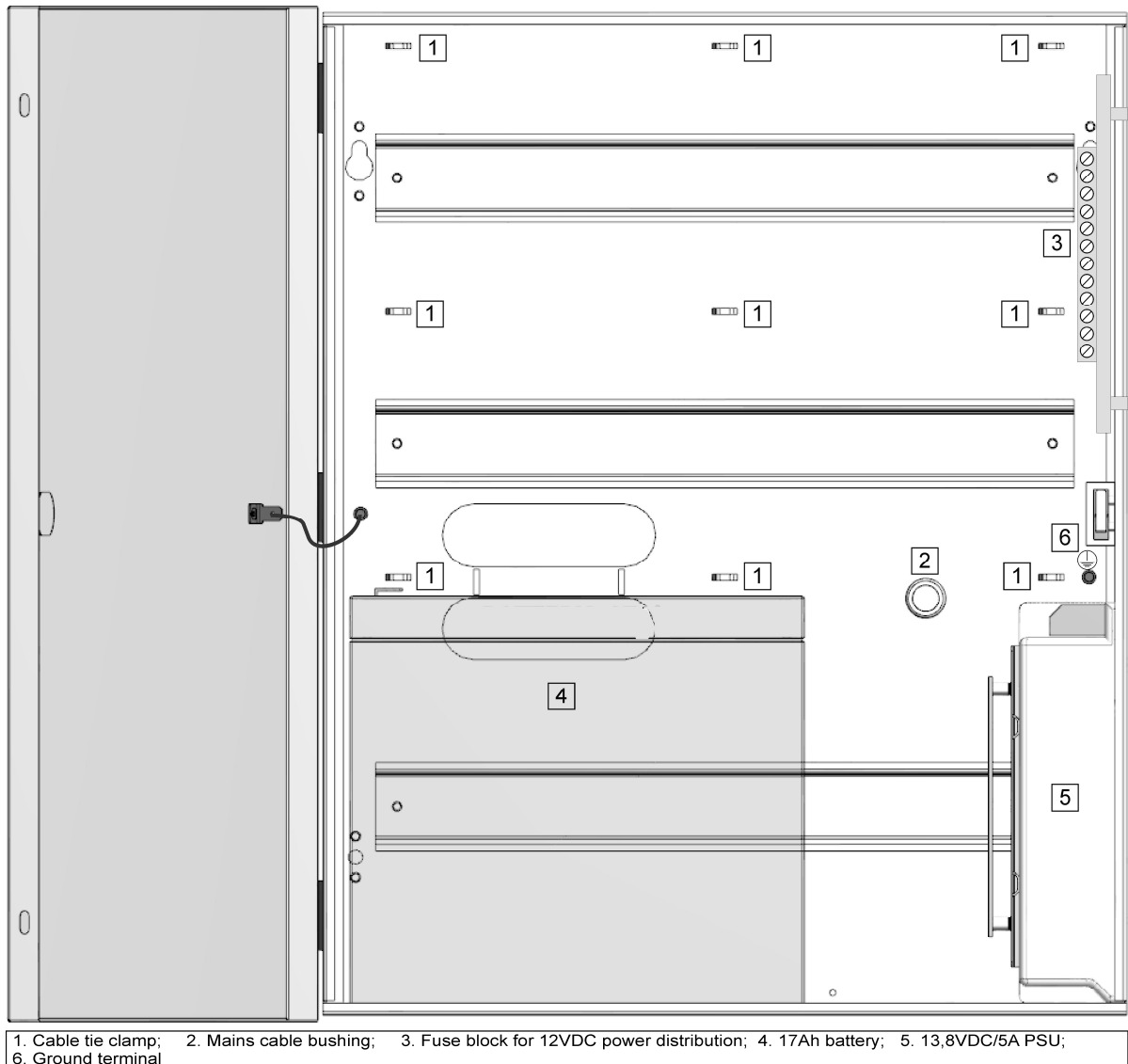


Fig. 1 Inside view of ME-2-D set with buffer PSU, fuse block and optional 12V/17Ah battery

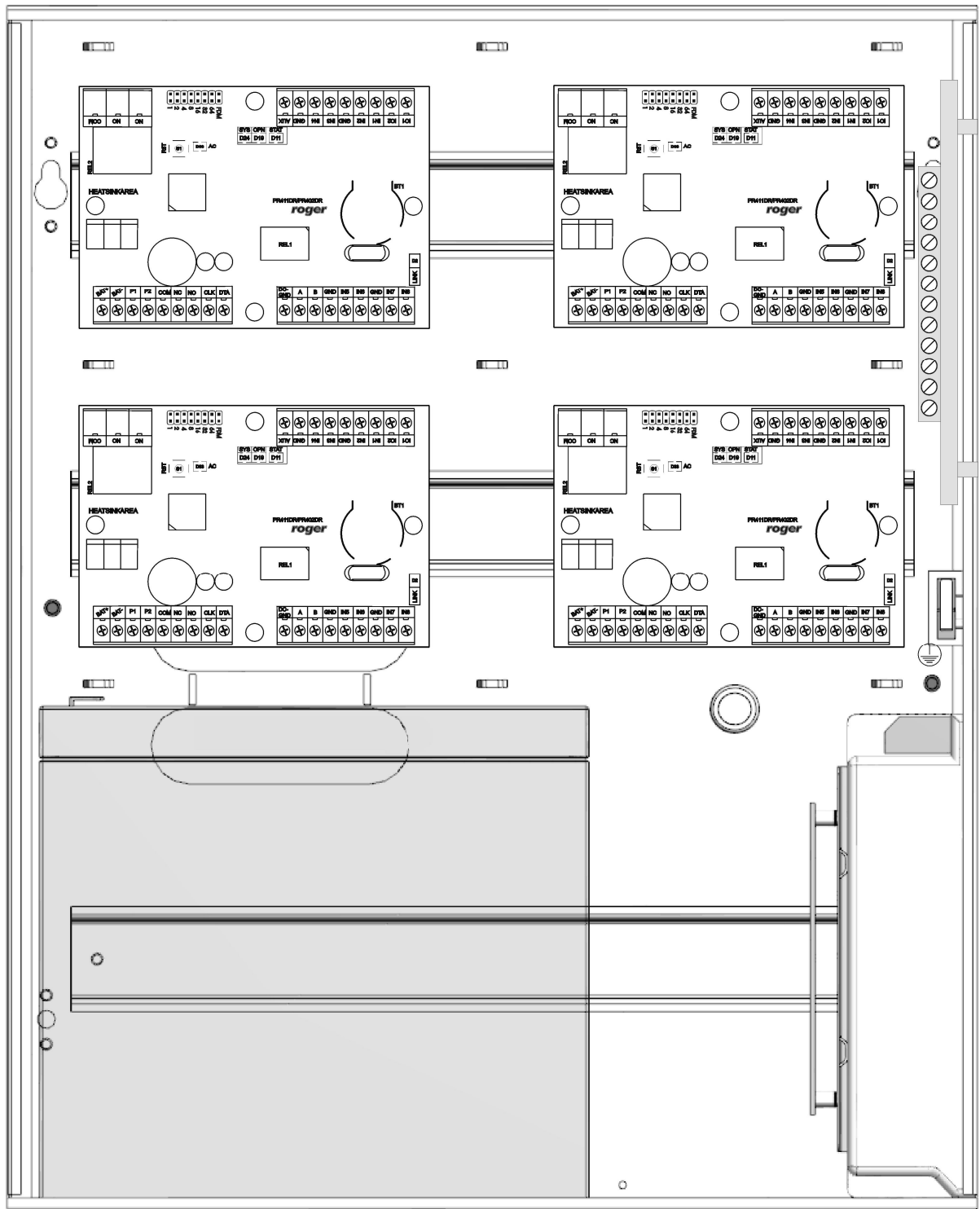


Fig. 2 PR402DR-12VDC-BRD controllers installed inside ME-2-D (example)

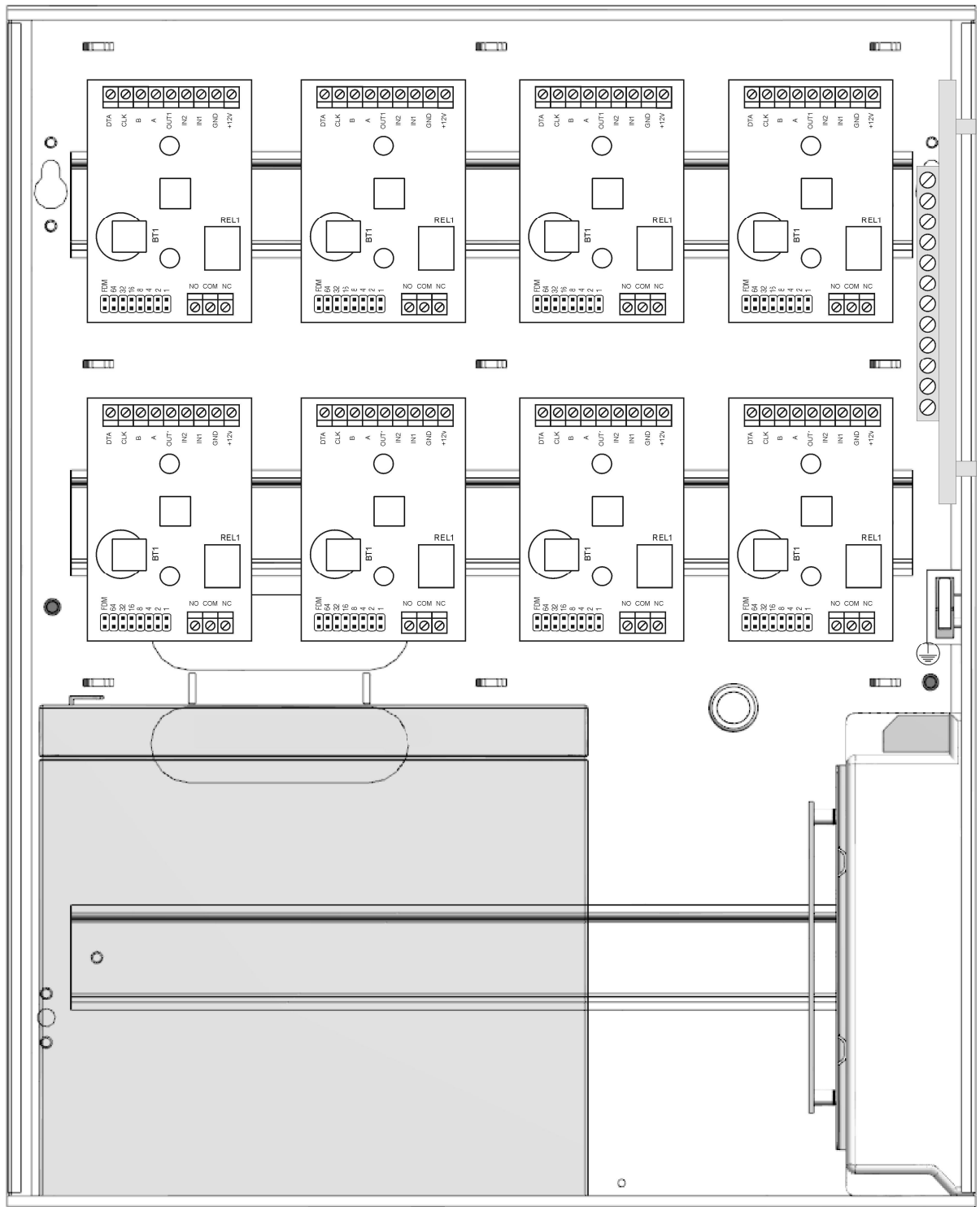


Fig. 3 PR102DR-BRD controllers installed inside ME-2-D (example)

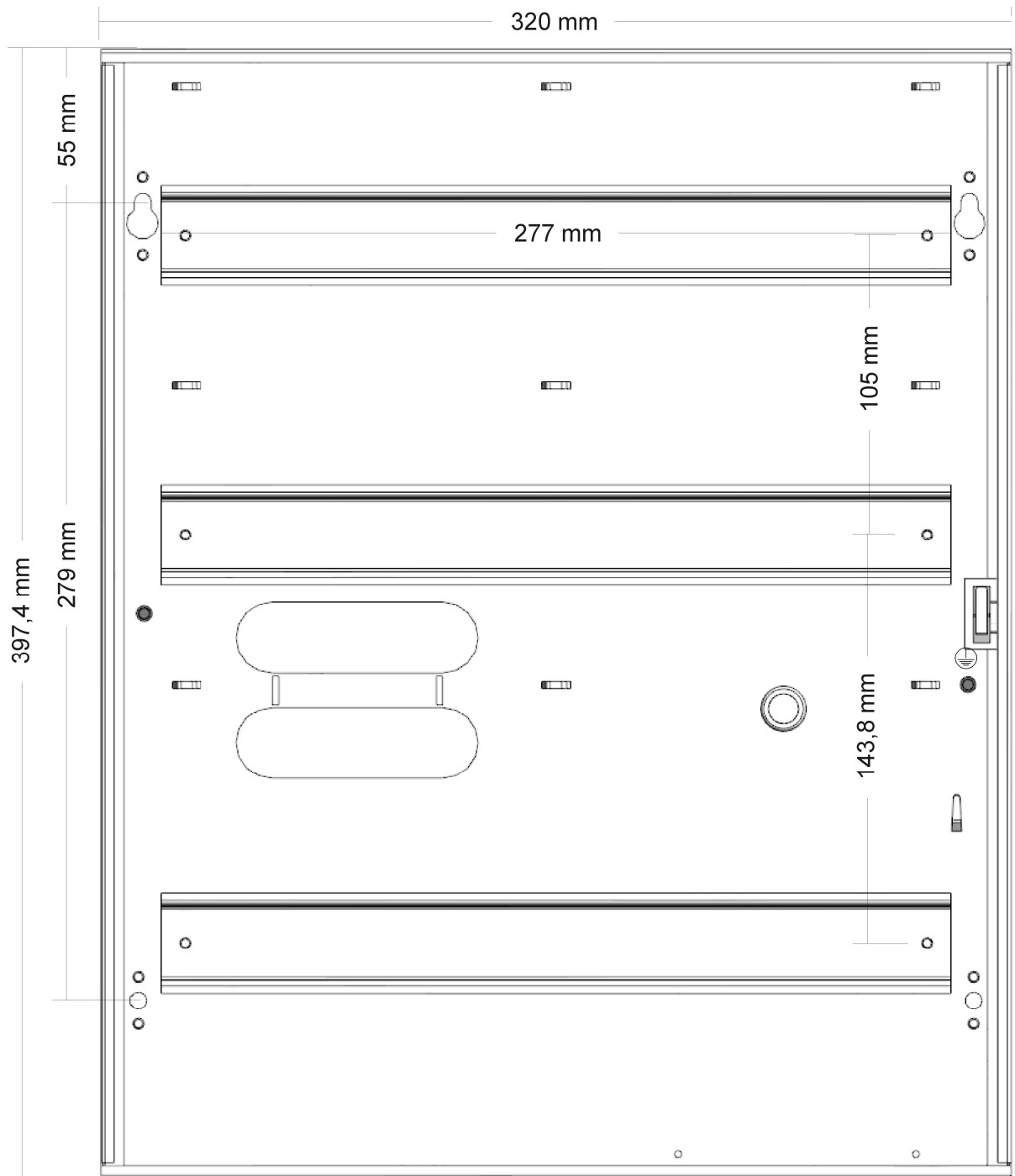


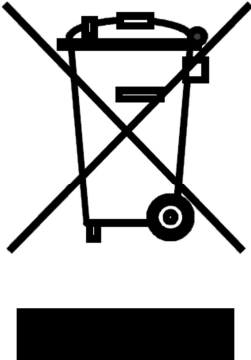
Fig. 4 ME-2-D dimensions

4. ORDERING INFORMATION

Product	Description
ME-2-D	Metal enclosure with buffer PSU and fuse block
ML-1	Mechanical lock

5. PRODUCT HISTORY

Version	Date	Description
ME-2-D v1.0	10/2013	The first commercial version of the product
ME-2-D v1.1	1/2022	Changing the buffer power supply

	<p>This symbol placed on a product or packaging indicates that the product should not be disposed of with other wastes as this may have a negative impact on the environment and health. The user is obliged to deliver equipment to the designated collection points of electric and electronic waste. For detailed information on recycling, contact your local authorities, waste disposal company or point of purchase. Separate collection and recycling of this type of waste contributes to the protection of the natural resources and is safe to health and the environment. Weight of the equipment is specified in the document.</p>
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