

FREE2MOVE eSOLUTIONS eProWallbox Move Low Power Charging Solutions User Manual

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*FREE2MOVE eSOLUTIONS eProWallbox Move Low Power
Charging Solutions User Manual*



 **eProWallbox Move**

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SAFETY INSTRUCTIONS

This document does not replace the user manual or installer manual.

This page contains important safety instructions that must be followed during installation and maintenance of the equipment. Keep this document in a safe place for easy access at all times during installation and maintenance.



RISK OF ELECTRIC SHOCK AND FIRE

Before starting the installation, make sure that eProWallbox Move is not connected to any electrical network. Any installation, maintenance or disassembly must be carried out only when the appliance is disconnected from the electrical network. Installation, maintenance or repairs that are not carried out correctly may involve risks for the user. It must be ensured that eProWallbox Move is used only in the presence of the correct operating conditions.



QUALIFIED PERSONNEL

With a permanent connection to the electrical network, the installation requires the intervention of qualified personnel for the design and construction of a dedicated, state-of-the-art electrical power system and to certify the domestic electrical system in compliance local regulations and the energy supply contract. The system must comply with IEC 60364-7-722 Low-voltage electrical installations – Part 7-722 Requirements for special installations or locations, Supplies for electric vehicles. (Requirements for special plants or sites, Power supplies for electric vehicles). In addition, the system must comply with local installation standards. Free2Move eSolutions S.p.A. assumes no responsibility for damage caused by improper installation of the device. Installers are responsible for completing the installation in the state of the art at a technical level and in compliance with current regulations. Incorrect installation can cause hazards such as serious injury or death.

⚠ DEDICATED ELECTRIC CIRCUIT FOR POWER SUPPLY

eProWallbox Move shall be supplied by a three-phase 400V, (Line-Line-Line-NeutralProtective Earthing) or by a single-phase 230V (Line- Neutral-Protective Earthing) dedicated circuit with utilization factor ($K_u=1$) and contemporaneity factor ($K_c=1$). The installer must evaluate the cross section of dedicated circuit according to eProWallbox Move nominal current, cable carrying capacity, type of installation, correction factors, operative temperature, adjacent cables and voltage drop.

⚠ DEVICE FOR PROTECTION AGAINST INDIRECT CONTACT BY AUTOMATIC DISCONNECTION OF SUPPLY

1. Residual Current Device (RCD) eProWallbox Move shall be protected by a three-phase 400V RCD, or single-phase 230V RCD according to the installation, shall comply with the requirements of an RCD Type A and shall have a rated residual operating current not exceeding 30 mA. RCD shall comply with one of the following standards: IEC 61008-1, IEC 61009-1, IEC 60947-2 or IEC 62423. RCD shall disconnect all live conductors. Use a Type B RDC if local regulation requires it.
2. Insulation Monitoring Device (IMD) For circuits in IT systems that are intended to power eProWallbox Move, for example through an isolation transformer or a battery system, an Insulation Control Device (IMD) compliant with IEC 61557-8 must be provided.

⚠ DEVICE FOR PROTECTION AGAINST OVERCURRENT

eProWallbox Move shall be protected by a three-phase 400V or single-phase 230V overcurrent protective devices (Miniature Circuit Breaker – MCB) complying with IEC 60947-2, IEC 60947-6-2 or IEC 61009-1 or with the relevant parts of IEC 60898 series or IEC 60269 series. Type C curve for domestic or similar use is suggested as the trip curve. Regarding the nominal current the installer must evaluate the choice of a MCB with rated current based on the eProWallbox Move maximum power allowed. When dimensioning the MCB, the prospective short-circuit current should be considered. As an indicative value 5kA could be considered but a precise evaluation must be done before installation. The maximum interrupting capacity of the MCB must be greater than the evaluated prospective short-circuit current.

⚠ PROTECTION AGAINST TRANSIENT OVERVOLTAGES OF ATMOSPHERIC ORIGIN

To prevent possible damage to the electric vehicle due to overvoltage, it is strongly recommended that the power supply circuit of the connection point is protected by SPD.




CONSULT THE MANUALS AND PERFORM THE INSTALLATION OPERATIONS USING THE CLOTHING AND/OR PROTECTIVE EQUIPMENT PROVIDED BY THE EMPLOYER Please note the installation should be carried out after reading the dedicated manual. The installation must be made by a professional following the Installation manual Guidelines and it is compulsory to perform the described operations using the clothing and/or protective equipment provided by the employer. The maximum power that can be distributed by eProWallbox Move is regulated by the local legislation in force in each country. Please refer to the FAQs, User and Installer Manual, for the maximum power, current and indicative values. The Manual can be downloaded by scanning the QR Code and clicking on the Library section of the website. To receive the Manual via mail or in paper form, visit our Customer Support page

<https://www.esolutionscharging.com/contact-us/> to find your country's Customer Service phone number.



Although they are not made of materials that are harmful to health, the products should not be disposed of along with household waste but must be collected separately, because they are made of materials that can be recycled.

Documents / Resources

	FREE2MOVE eSOLUTIONS eProWallbox Move Low Power Charging Solutions [pdf] User Manual eProWallbox Move Low Power Charging Solutions, eProWallbox Move, Low Power Charging Solutions, Power Charging Solutions, Charging Solutions
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References

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