

# RDX Charger



| Description  | Order Code       |
|--|------------------|
| Robotina Dynamic Charger with type 2 cable and RFID card reader                                      | <b>RDX-RF</b>    |
| Robotina Dynamic Charger with type 2 cable, RFID card reader and residual current device             | <b>RDX-RF-R</b>  |
| Robotina Dynamic Charger with type 2 cable, RFID card reader and IOT Linker                          | <b>RDX-RF-I</b>  |
| Robotina Dynamic Charger with type 2 cable, RFID card reader, residual current device and IOT linker | <b>RDX-RF-RI</b> |
| Robotina Dynamic Charger with type 2 cable and QR code reader  | <b>RDX-QR</b>    |
| Robotina Dynamic Charger with type 2 cable, QR code reader and residual current device               | <b>RDX-QR-R</b>  |
| Robotina Dynamic Charger with type 2 cable, QR code reader and IOT Linker                            | <b>RDX-QR-I</b>  |
| Robotina Dynamic Charger with type 2 cable, QR code reader, residual current device and IOT linker   | <b>RDX-QR-RI</b> |

## Features

- Up to 22kW of charging power
- Modern design with IP54 & IK10 standard
- Suitable for indoor and outdoor use
- Coloured LED light indicates charging status
- Easy operability with one button on housing for charging modes & stop
- Monitor & control charger operation via web-based cloud interface
- Compatible with 3rd party software
- Secure charger with remote locking option
- Save by charging (economy charging) during off-peak hours
- Charge with surplus energy (solar & wind energy)
- Priority charging at the highest possible power
- Dynamic load balancing keeps consumption power below max allowed (protect grid fuse/s)
- Manage charging of electric vehicles (EV fleet)
- Remote control of key consumers (heat pump, battery storage system,)
- 6mA DC residual current, overvoltage and undervoltage protection
- RFID or QR access control to allow authorized usage only
- Long range wireless power sensors for installation without cabling
- Fully compliant with IEC 61851

# Introduction

## PLUG IN & GO

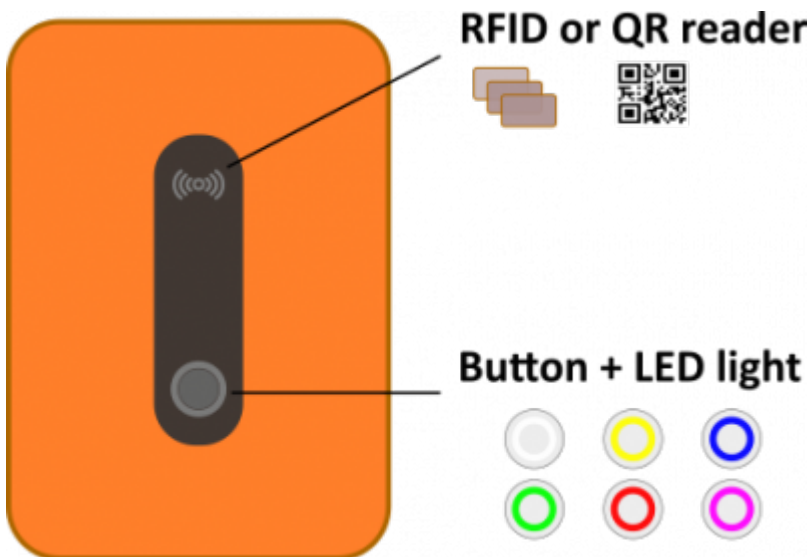
Simply connect vehicle to charge and unplug to drive.

*RDX Charger* makes charging as easy as possible by enabling of charging using button on housing or by application on cloud.

## BUTTON & LED on housing

- charging starts automatically as soon as vehicle is connected with power cable
- press button to stop charging, press again to restart
- press and hold button to activate priority charging
- LED light indicates charging status
- operating with button doesn't require active application

*\*Button on housing and "button" on cloud application share same functionality. It doesn't matter which one is used.*



## RFID or QR

- authentication for users
- charging starts after authentication is successful
- RFID or QR reader could be installed on housing, both is not possible.

## LOCKED










- disable unauthorized use of charging station
- locked is deactivated by authorized RFID card, key fob or by cloud application

## ECONOMY CHARGING

- allows charging with a current set by user
- charging at low tariff only (depending on table set by user)
- charging by surplus energy only or in combination with grid power

## PRIORITY CHARGING

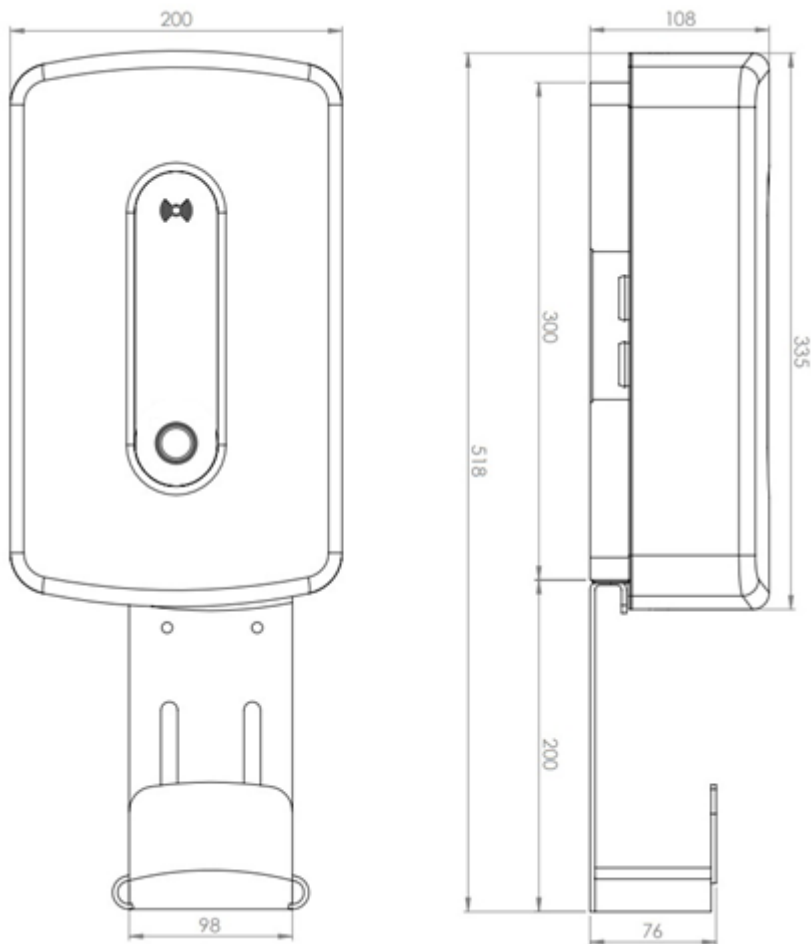
- Utilize all available power to charge as fast as possible
- In case of *Dynamic load balancing* temporary suspends high-power loads to increase available power for charging simultaneously keeping total power below max allowed power

| LED indicator   | Steady light                 | Flashing light                          |
|---|------------------------------|---|
|    | EV not connected             | Paused by EVSE (short press to unpause) |
|    | EV connected, not charging   | Paused by EVSE (short press to unpause) |
|    | EV connected, charging       | /                                       |
|    | EV connected, charging ended | /                                       |
|    | /                            | Error                                   |
|    | /                            | Locked                                  |
|    | /                            | Priority charging                       |
|   | /                            | Priority charging paused                |
|  | /                            | Priority charging ended                 |

## Technical specifications

|                         |  |
|-------------------------|--|
| Nominal voltage         | 1x230Vac 50/60Hz, 3x230/400Vac 50/60Hz |
| Maximum current         | 1x32A, 3x32A                           |
| Maximum charging power  | 22kW                                   |
| Connector               | Type2, 5m cable                        |
| Network connection      | Ethernet 100M RJ45                     |
| Ingress protection      | IP54                                   |
| Impact resistance       | IK10                                   |
| Operating temperature   | -20°C to +45°C                         |
| Storage temperature     | -40°C to + 70°C                        |
| Charging pilot negative | 1mA, 20ms reaction time                |
| Residual direct current | 6mA, 200ms reaction time               |
| Standards               | IEC 61851                              |

## Dimensions

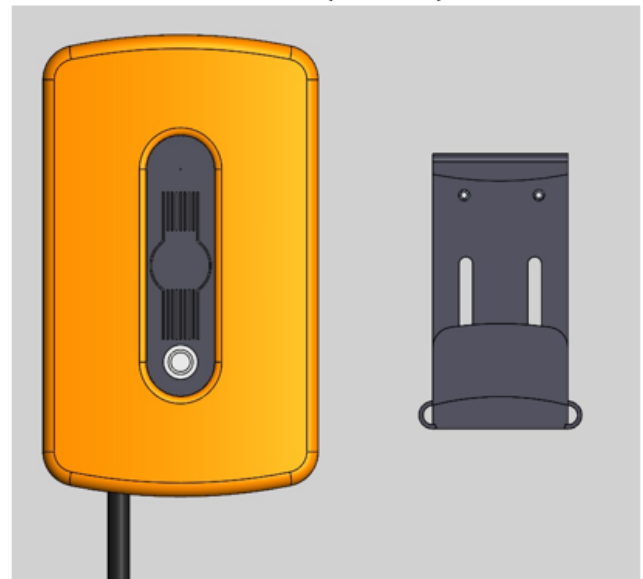


## Cable holder mounting options

It can be installed directly on the RDX Charger



It can be installed independently on the wall



## Accessories

| Description   | Order Code |
|---|------------|
| Wireless external single-phase Power sensor   | WPM1-E-D   |
| Wireless external three-phase Power sensor  | WPM3-E-D   |
| Wireless relay, to control other loads in the building  | WR-1       |
| Protective roof   | RDX-PR     |
| Freestanding set  | RDX-FS     |
| 4G LTE modem for IOT linker <b>This option is only possible for RDX Charger models that already have an integrated IOT linker</b> | RDX-LM     |

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