RDX Charger



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

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**

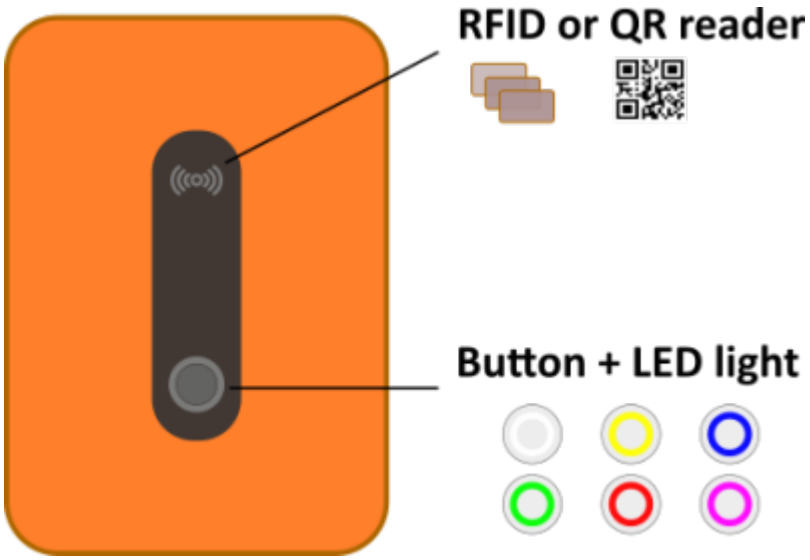
Introduction

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 **

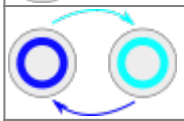
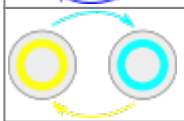
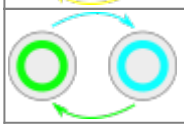
- disable unauthorized use of charging station
- locked is deactivated by authorized RFID card, key fob or by cloud application

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

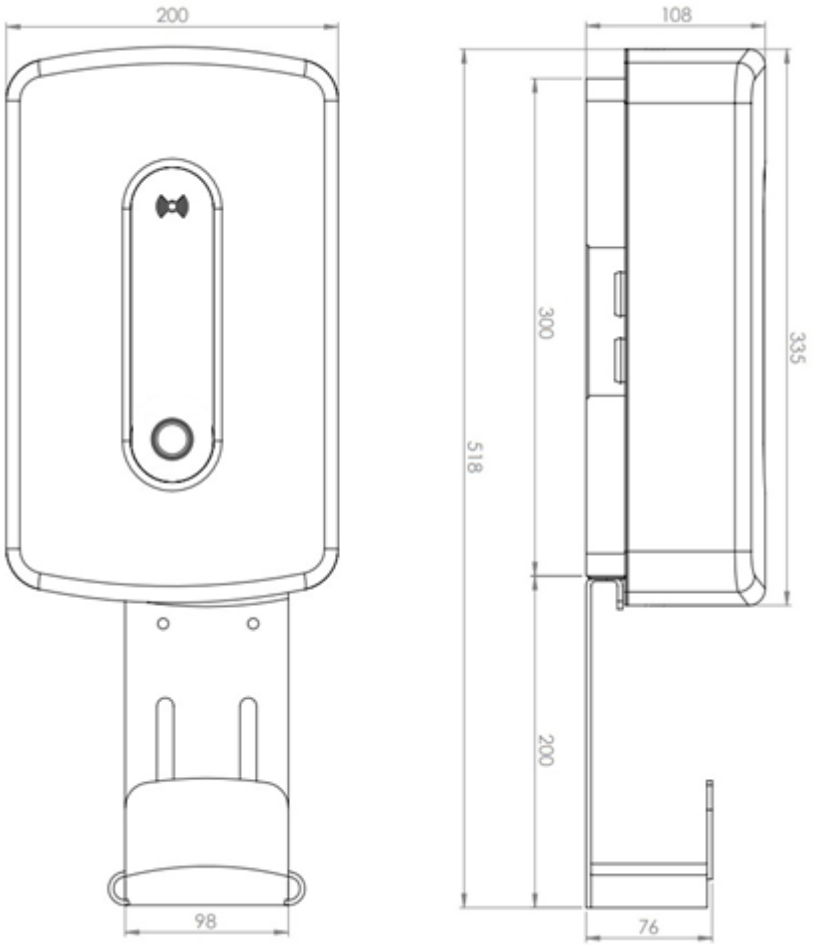
LED indicator	Steady light	Flashing light
	EV not connected	Paused by EVSE (short press to unpause)
	EV connected, not charging	Paused by EVSE (short press to unpause)
	EV connected, charging	/
	EV connected, charging ended	/
	/	Error
	/	Locked
	/	Priority charging
	/	Priority charging paused
	/	Priority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

Technical specifications

Nominal voltage	1x230Vac 50/60Hz, 3×230/400Vac 50/60Hz
Maximum current	1x32A, 3x32A
Maximum charging power	22kW
Connector	Type2, 5m cable

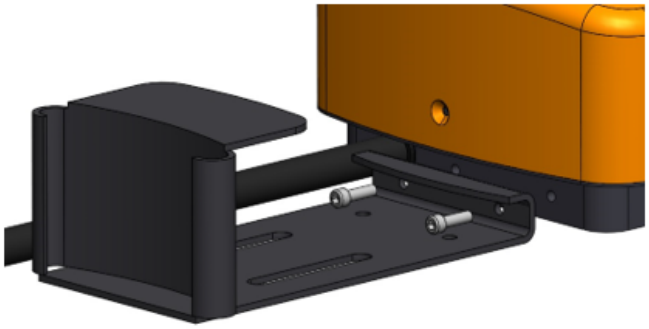
Network connection	Ethernet 100M RJ45
Ingress protection	IP54
Impact resistance	IK10
Operating temperature	-20°C to +45°C
Storage temperature	-40°C to + 70°C
Charging pilot negative	1mA, 20ms reaction time
Residual direct current	6mA, 200ms reaction time
Standards	IEC 61851

Dimensions

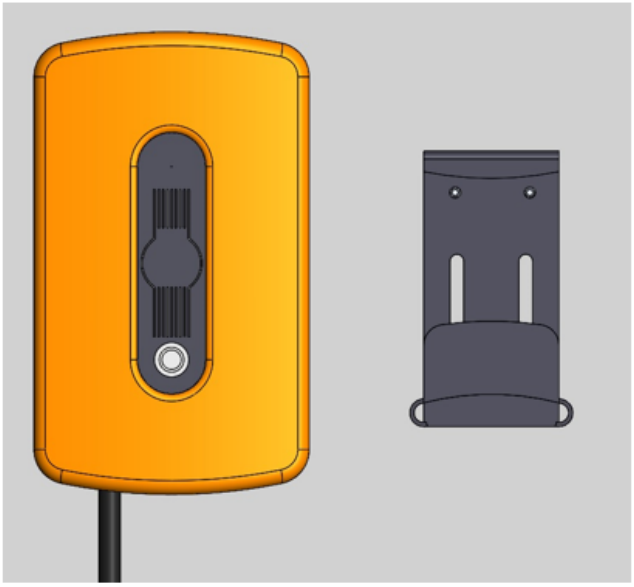


Cable holder mounting options

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 kit	**WPM1-E-D**
Wireless external three-phase Power sensor kit	**WPM3-E-D**
External single-phase Power sensor	**PM1-E-D**
External three-phase Power sensor	**PM3-E-D**
Wireless Modbus bridge	**WM-1**
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 **This option is only possible for RDX Charger models that already have an integrated IOT linker**	**IOT-L2-W**

From:
https://wiki.hiq-home.com/ -

Permanent link:
https://wiki.hiq-home.com/doku.php?id=en:hiq_hw:rdx_charger&rev=1674222223

Last update: **2023/01/20 13:43**