

# Software

To run RDC Charger application it is required:

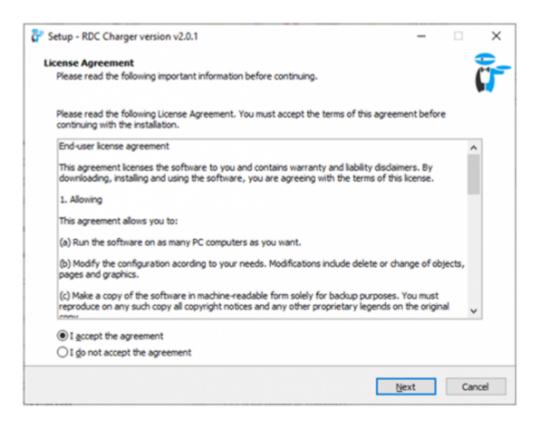
- to establish connection between charger and router by UTP cable
- to connect charger to the power supply
- download and install latest version of application for RDC Charger \*

# Once RDC Charger is configured, it does not require further connection to internet or configurator for normal operation !

\*Latest version of RDC Charger (EVSE) can be found under Downloads map.

## Installation

- run rdc\_charger .exe file from Downloads
- · select default or desired folder

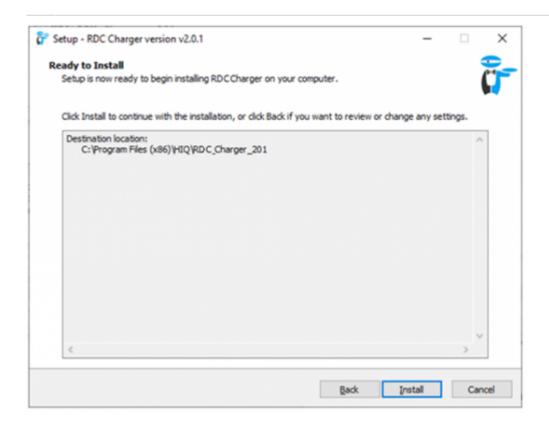


🚰 Setup - RDC Charger version v2.0.1	-		$\times$
Select Destination Location Where should RDX Charger be installed?			<b>ř</b> -
Setup will install RDC Charger into the following folder.			
To continue, click Next. If you would like to select a different folder, click Browse.			
C:\Program Files (x86)\HIQ\RDC_Charger_201	Bg	owse	
			-
At least 12,9 MB of free disk space is required.			
Back Ne	xt	Can	cel

- select charger serial number (SN), visible on sticker \*
- run install

\*if does not appear a window with SN or it is not listed it means that application at this moment did not recognize charger. Continue with installation and select SN on application later.

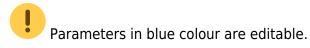
Setup - RDC Charger version v2.0.1	-	
Select RDC Charger		
Which charger should be selected when the program is installed?		
Choose one, other chargers can be selected later.		
○ 30566		^
○ 30566		
○ 31059		
○ 31059		
○ 31490		
O 31490		
40000		
O 40000		
O 40001		
O 40001		
0 40105		
0 40105		
		*
8-4	Next	Cancel
Back	Gext	Cancel

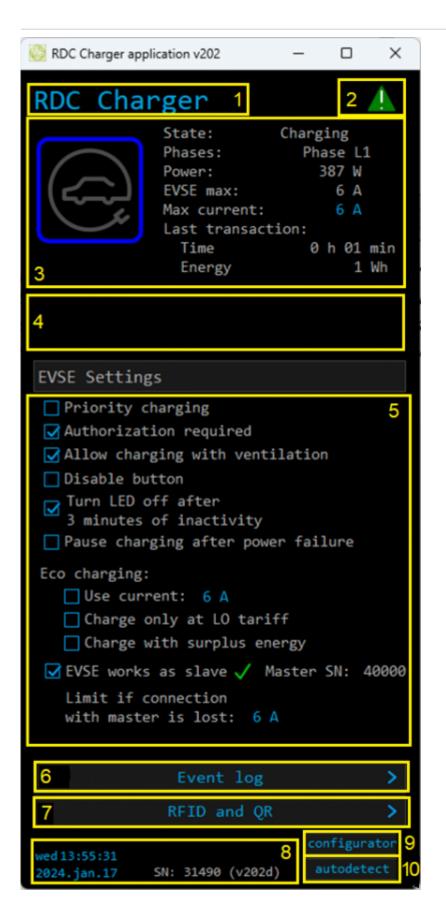


#### Installation is successful!

Setup - RDC Charger version v2.0.1	×
	Completing the RDC Charger Setup Setup has finished installing RDC Charger on your computer. The application may be launched by selecting the installed shortcuts. Click Finish to exit Setup. ☑ Start RDC Charger
	Enish

# **EVSE overview**





RDX Charger v2.0.1						-	
Event log							6
begin dat	e begin end	duration [h:min]	energy [kWh]	card nr./ type	Note		
✓ 2022.dec.	22 11:34 00:00		003.7	not locked	Normal char	atina curla	
√ 2022.dec.			026.8	not locked	Normal char		
√ 2022.dec.			032.2	not locked	Normal char		
2022.dec.	19 08:11 10:21	002:09	020.6	not locked	Normal char	ging cycle	
✓ 2022.dec.:			022.2	not locked	Normal char		
✓2022.dec.:			011.6	not locked	Normal char		
√ 2022.dec.:			006.0	not locked	Normal char		
✓ 0000.jan.			000.0	88 89	Normal char		
✓ 0000.jan.			000.0	00 00	Normal char Normal char		
		000100	00010	99	normal char	ging cycle	·
✓ SN: 40000 (v1.)	2.7b)						
IN DOV CH	201	_		,			
RDX C	harger v2.0.1	- 0	×	<			
DEI	D.MIFARE a	nd OP	7				
card							
card	card ID	manage	card				
no.	C010 10						
01							
01	-1	add	del				
02	-1	add	del				
~_							
03	15891668	add	del				
63	12031000	auu	uer				
04	0	add	del				
05	-1	add	del				
60	-1	auu	uer				
06							
06	-1	add	del				
07	-1	add	del				
07							
08		add	del				
60	-1	auu	uer				
09	-1	add	del				
10	-1	add	del				
10	-1	auu	uci				
Time							
1 Ame							
1 511-	10000 /						
✓ SN:	40000 (v1.2.7	o)					

## 1. EVSE Name

Name of EVSE - default is RDC Charger.

*	*

Yellow status when DLM is enabled and active. Green status	
when enabled and not active. None if DLM is not set.	

×

3.	Data	from	ongoing	charging	session
----	------	------	---------	----------	---------

5. Data nom ongoing thang	5. Data nom ongoing tharging session				
EV charging icon with LED light	Different LED light colour is presenting charger state, while icon acts as a button. Short press toggle enable/pause charging, long press for priority charging and error reset.				
State	JuithDifferent LED light colour is presenting charger state, while icon acts as a button. Short press toggle enable/pause charging, long press for priority charging and error reset.EVSE status: Communication error; Unknown; Available; Preparing (authorization done, waiting for vehicle to be connected) or (EV connected, authorization required);Charging; SuspendedEV (Paused by EV); SuspendedEVSE (Paused by EVSE); Finishing; Fauled(error); Unpausing; Unavailable; No EVSE response; Available, Authorisation required; Stopping; Starting; Suspended by DLM; Reserved; Reserved, preparing (EV connected, authorization required); Charging ended or 				
Phases - number of used phases while charging					

Power	Charging power of EV.			
EVSE max	Current setting that is sent from the charging station to the electric vehicle			
Max current	Allowed max charging current.			
Last session	Time - duration of charging session, Energy - consumed energy of charging session.			
4. Error message(s)				
Undervoltage; Charge with ve	e voltage; CP negative voltage; RCD sensor trip; Overvoltage; entilation; PS reading error (EVSE); Current is higher than allowed; mal temperature is too high; PS reading error (grid) ase see table below.			
5. EVSE settings				
Priority charging	Utilize all available power to charge as fast as possible ignoring economy charging.			
Locked	Disable unauthorized use of EVSE, authorization is possible with RFID tags or by cloud application.			
Allow charging with ventilation	Allow/deny charging if EV requests ventilation.			
Disable button	Disable functionality of button on housing.			
Turn LED off after 3 minutes of inactivity	LED light is turned off after 3 minutes.			
Eco charging	<ul> <li>Use current: set desired current for charging.</li> <li>Charge only at LO tarriff: charging possible at low tariff only.</li> <li>Note: LO tarriff must be set.</li> <li>Charge with surplus energy: dynamically charge EV if there is surplus energy</li> </ul>			
EVSE works as slave	EVSE is a slave to master (Modbus TCP communication) EVSE with its serial number-SN. Green tick if communication is OK, red X for lost communication.			
Limit if connection with master is lost	In case of lost communication, use set charging current.			
6. Event log				
Shows last 10 charging sessio	n.			
begin & end time	Begin date, hour and end of charging session.			
duration	Duration of charging session [h:min].			
energy	Consumed energy in session.			
card nr./type	Card ID used for charging session. If note "not locked" card ID is not used/needed.			
note	Status message about charging session (normal or some error).			
7. RFID, MIFARE and QR				
	g or QR code, for managing authorized access to EVSE.			
Card no. & card ID	Supported up to 10 RFID/MIFARE/QR tags/cards.			
Manage card	Press Add for new card or delete existing one.			
Time	60 seconds time frame for adding new card.			
8. Time & date and SW ver				
Time and date with software v 9. configurator	/ersion release.			
Runs Configurator				
10. autodetect				

## **Error table**

RDC Charger recovers error automatically. To delete error by yourself long press button on charger housing or on application. **Charging is stopped while error is active. If red light still flashes, please read table bellow.** 

Error	Possible causes	Possible solution
CP positive voltage CP negative voltage	Measured voltage on CP pin is out of range.	Check your charging cable and plug. Reconnect your EV. If error still appears, please contact your EVSE service.
RCD sensor trip	DC current leak detected.	Please try to connect another EV, if error still appears, please contact your EVSE service. Otherwise, please contact an authorized car service department.
RCD sensor malfunction	RCD sensor is damaged or not connected.	Please contact your EVSE service.
Undervoltage Overvoltage	Supply voltage is out of range.	Please contact your EVSE installer.
Charge with ventilation	EV requests charging with ventilation and "Charging with ventilation" is not enabled on configurator	Enable "Allow charging with ventilation" if charged EV is located in ventilated area.
PS reading error	No communication with internal power sensor.	Please contact your EVSE service.
Current is higher than allowed	Vehicle draws more power than allowed.	Please try to charge another EV, if error still appears, please contact your EVSE service. Otherwise, please contact an authorized car service department.
Internal temperature is too high	Temperature inside of charger is too high.	Make sure charger is not exposed to direct sunlight. Please contact your EVSE installer.

# **HEMS Configurator**

## home

Basic system overview.

HEMS Configurator v2.0.0				Temperature -100.0°C	
					home
Grid					power [W]
LO: 0W LO: 0Wh HI: 0Wh D-LO: 0Wh D-LO: 0Wh D-LO: 0Wh					energy [Wh]
A D-HI: BWA	en ;	ewn ;	2		timetable
96wh 1					tariff
	ewh 4	ewh 4			limiter
	X outro	X <sup>om</sup> n ⊉ 3			ev fleet
	Robo Charger				IO mux
	ew ewh long-press for analog set		$\times_{\rm ext}^{\rm ext}$	$\times_{\rm exh}^{\rm exh}$	settings
	$\times_{ab}^{au} \Rightarrow \times_{a}$	×			
		enh ;	enh ; · · ·	Buth : 4	
Unknown K P ew ewh 5	Background ew ewh				
					exit

1. Grid		
>	From grid	Tariff (LO, HI, D-LO, D-HI) and power from grid in W
	5	Imported energy by tariff in Wh
<	To grid	Power exported to grid in W
	_	Exported energy in Wh
2. Plants		
<	Produced	Produced power in W and energy in Wh
>	Consumed	Consumed power in W and energy in Wh
3. Storage systems		
<	Sourced	Power in W and energy in Wh sourced from storage (battery)
>	Stored	Power in W and energy in Wh stored (to battery)
bargraph and % <sup>1</sup>	SOC	Battery State Of Charge
4. Consumers		
>	Consumed	Consumed power in W and energy in Wh
[]	Status	Output status for managed consumers
click	Toggle	Click in frame toggles managed consumers output
5. Unknown source		
>	Sourced	Power in W and energy in Wh from unknown source
. Accur	nulate also all di	fferences caused by power sensor inaccuracy
6. Other consumers	5	
>	Consumed	Consumed power in W and energy in Wh by other (not measured) consumers
7. Page navigation		

ho	ome	Home screen
рс	ower [W]	Power screen
en	nergy [Wh]	Energy screen
tir	netable	Timetable screen
ta	riff	Tariff screen
dlı	m	Limiterscreen
ev	/ fleet	EV fleet screen
IO	mux	IO mux screen
se	ettings	Settings screen
8. Exit		
ex	cit	Close appliction

 $^{\scriptscriptstyle 1}$  only for eStore

### power

Overview of current power distribution by source / consumer.

	GridLO	GridHI	GridD-LO	GridD-HI	PV			eStore		Unknown	
	0				9						
								STORAGE S			
						2342					
					8						
37	0									•	
9	9	9	8	8	9					9	
0	0										
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1. Sourceu power
Sourced power for each source
Sums per source type
Total of all sourced power
2. Consumed power

Power for each consumer

#### 3. Power distribution

Partial distributed power

#### 4. Submeter (Green outline)

Power meter is not part of internal circuit

#### Software

HEMS Configura	tor v2.0.1									- 0	] >
					GridD-HI	PV 1			Unknown		
						0				0	
						PLAJ TOTAL:	T SUM: 2342	STORAGE SUP			
irid	2 0						2342	 -		timeta	
						9		 0		9	
Store	9	8	8	8		9				e limit	ten
ackground	9	8	8	0	e	9					
obo Charger	9	8	0	0	6	9				ev +1	
	400				6	0				9	
					0	0				a IO m	
					8	0				9	
	1905 2068	8				9 9		0		9	
	2068										

#### **1. Sourced power distribution**

How sourced power is consumed by each consumer

#### 2. Consumed power distribution

Who sources consumed power

### energy

Energy overview of a given time distributed by sources / consumers.

Image: set of the set of	Image: state in the state	HEMS Configurator v2.0.1								- 0
Image: state in the state	<ul> <li></li></ul>									
33724 0       3332       318       338       338       338       338       338       1 <th>i       327436       433527       0       0       2211       3380       0       0         i       0110       10101       12555       100       0</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	i       327436       433527       0       0       2211       3380       0       0         i       0110       10101       12555       100       0									
1000000000000000000000000000000000000	22739       0       0       0       0       2313       3300       0         010       010       0		GridLO	GridkI	GridD-LO	GridD-HI	PV	estore	Unknown	
UNULL       707AL       707AL <td< td=""><td>vid       10741: 26529       1080       0         vid       1090       11999       7239       0       0       1</td><td></td><td>327434</td><td></td><td></td><td></td><td></td><td></td><td>0</td><td>energy [Wr</td></td<>	vid       10741: 26529       1080       0         vid       1090       11999       7239       0       0       1		327434						0	energy [Wr
etal       4400       100       0       3000       0       0       100       0       0       0       100       0	aria       4103       100       0			GRID SUM:				STORAGE SUM: 3380	1	
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astribution	sextgrowd       0       39412       -43682       0       124       2514       0 <td>PV 19001</td> <td>11098</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> <td></td>	PV 19001	11098						0	
<pre>reproduct seture 1 445655 1 154664 333331 0 0 0 12 1 99 1 99 1 10 10 10 10 10 10 10 10 10 10 10 10 1</pre>	Robo Charger       48669       134664       33114       0       0       300       7       0       0       0       1       10<	estore 3808	2450						0	
both Charger 4 55555 5 5555 4 6 6 200 7 7 0 0   Constructed energy for each source   Sourced energy for each source   Sourced energy   Total of all sourced energy   Consumed energy   Energy for each consumer   3. Energy distribution	0000 (marger       466690       354864       3311514       0       0       3000       7       0	Background @	39412							ev fleet
get       669       669       69       6       100       100         get       100       60412       33332       0       0       0134       3       0       0       0134       3       0	Gew       669       0       667       0       0       0       10       10       mu         Evide (14488       109933       65412       3382       0       0       9134       3       0       0       setting         Evide (14488       109933       65412       3382       0       0       0       0       4       0       0       setting         Evide (14488       109933       65412       3382       0       0       0       0       4       0       0       setting         Evide (1448       109933       65412       3382       0       0       0       0       4       0 <td< td=""><td></td><td>154864</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>		154864							
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there y since: sun 00.00.0000 00:00:00 S Testet all long prest 6 Testet all long prest 6 Total of all sourced energy Energy for each consumer <b>3. Energy distribution</b>	thergy since: sun 00.00.0000 00:00:00 S 3 4 exit long-press 6 exit long-press 6 Sourced energy Sourced energy for each source		0					44	0	
Liste surced energy Sourced energy for each source Sums per source type Total of all sourced energy <b>2. Consumed energy</b> Energy for each consumer <b>3. Energy distribution</b>	e 14:10:23 2022.dec.13 HERS SN: 40000 (v1.2.7b) <b>1. Sourced energy</b> Sourced energy for each source		327807	428748	8	θ	8	8	8	< <u>√</u> 4
Sourced energy for each source Sums per source type Total of all sourced energy <b>2. Consumed energy</b> Energy for each consumer <b>3. Energy distribution</b>	Sourced energy for each source	ie 14:18:23 2022.dec.13	4EMS SN: 40000	(v1.2.7b)						exit
Sums per source type Total of all sourced energy <b>2. Consumed energy</b> Energy for each consumer <b>3. Energy distribution</b>		1. Sourced	energy							
Total of all sourced energy 2. Consumed energy Energy for each consumer 3. Energy distribution	Sums per source type	Sourced ener	gy for e	ach sou	urce					
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Energy for each consumer 3. Energy distribution										
3. Energy distribution										
	Energy for each consumer			umer						
		2 Enormy di		-						
Partial distributed energy	3. Energy distribution									

### 4. Submeter (Green outline)

Power meter is not part of internal circuit

### 5. Energy since

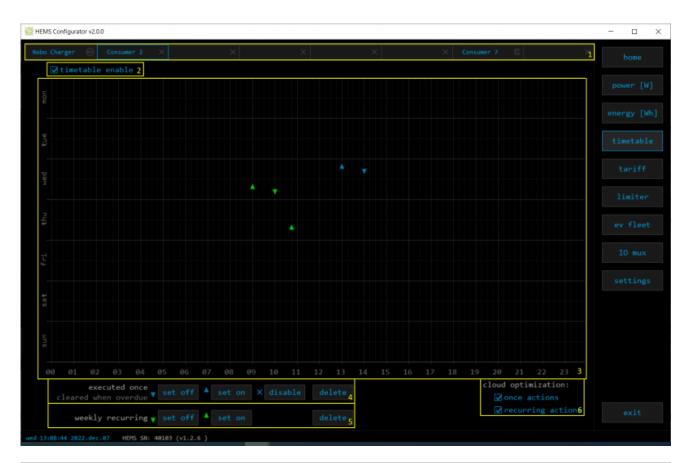
Date and time since energy is recorded

#### 6. Reset all

Long-press to reset all energy counters

# timetable

Weekly timetable for managed consumers.



#### 1. Managed load menu

Switch between managed loads

#### 2. Enable checkbox

When un-checked timetable is not executed

#### 3. Events grid

Events displayed in weekly grid (15 min resolution)

Click to select time and set event by clicking buttons below

#### 4. Once actions (top priority timetable actions)

Actions are executed and then automatically cleared.

"Disable" action will just disable recurring action.

### 5. Recurring actions (low priority actions)

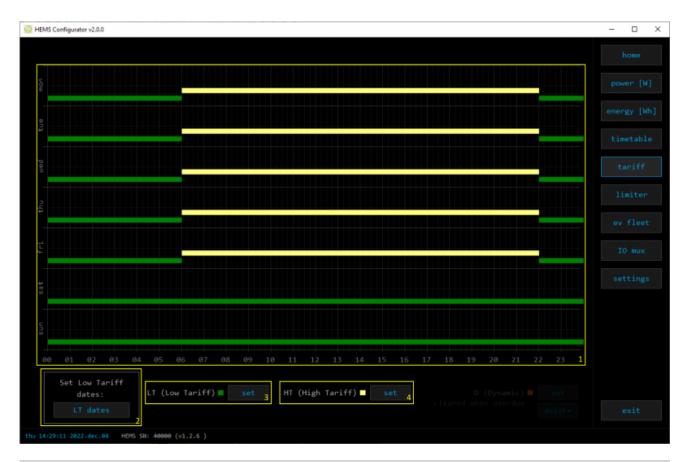
Actions are executed each week.

#### 6. Cloud optimization

When enabled (checked) cloud optimization is enabled.

## tariff

Weekly tariff timetable for grid energy per tariff distribution.



#### 1. Tariff grid

Graphical weekly timetable with tariffs.

Click to select term, click-and-drag to select multiple terms.

#### 2. Low tariff dates

Set low tariff dates for holidays.

#### 3. Low tariff

Set low tariff for selected terms.

#### 4. High tariff

Set high tariff for selected terms.

# lo tariff dates

Holiday dates when tariff is low

C	HEMS - Set	t LO tariff date	s —		×		
	Set	LO ta	riff da	ates			
		LO tari	ff date				
	day	month	day	month			
	88		80	88			
	88		80	80			
	8	88	80	80			
	53	89	80	80			
	88	85	80	80			
	8 <b>2</b> 8 <b>5</b> 8 <b>0</b> 8 <b>0</b>						
	25 66 80 80						
	85	8	80	88			
	30	00	80	88			
	88		80	80			
	25	88	80	88			
	- 26	88	80	80 <u>1</u>			
	🔲 Use e	aster mond	ays (Roma	n Catholi <mark>2</mark>	)		
		ex	it				

#### 1. Date table

Up to 24 days when tariff is low on holiday

### 2. Use easter mondays

Use preprogrammed roman-catholic easter monday holidays

# **Dynamic Load Management**

## Overview and configuration of DLM

Dynamic	Loa	d Man	agen	nent											me
						Grid cur	rent lim	it [A]							
								L3							
						20	20	20							
			, N	AX currer	nt limit:										
	X Enab	le cluster	slave co	onnection											
									<u></u>						
	Limit														
	🔀 Enabi	le limiting	; from cl	Loud											
	Limi								1						
			Power	[W]		Cu	rrent [A]	1	Vo	ltage [V	1				
		Total									L3		1	Priority	
1		108	50	26	32	0,4	0,4	1,8	232	231	231	11/12/13			
		18			18			0,5			231				
		10						0,5							
re	E.														
														A late flash	
		0	0 0	9 8	0 0	0,0 0,0	0,0 0,0	0,0 0,0	232 0	231 0	231 0		-	Limit first No limiter	
		0		9		0,0	0,0	0,0	0	230	0			No limiter	
	<b>T</b>														
	De														
	<b>•</b>	0					0,0							No limiter	
	2	120		28	40	0,4	0,3	1,5	232	230	231			No limiter	
kground		90	50	26	13	0,4	0,4	1,4			5	6		7	
D FREQUENCY [H	7] 50 (*														

### 1. Grid Current limit

I. Gha Current innit							
MAX current limit	Current limit threshold for main grid fuse						
Enable cluster slave connection	Current limit threshold if charger lost connection with master						
Enable limiting from cloud	Current limit threshold if charger lost connection with cloud						
2. Consumer management							
Turn consumers on or off							
3. Power							
Total power and power for each pha	se						
4. Current							
Current for each phase							
5. Voltage							
Voltage for each phase							
6. Phase order							
First set correct phase order for grid power sensor and then set for other power sensors/devices. <b>NOTE:</b> changing grid phase order will NOT apply to phase order of other connected devices!							
7. Status and priority							
××	Yellow status when limiter is enabled and active. Green status when enabled and not active						

# Device priority group: no limiter, limit last (last to be limited), limit second, limit first (first to be limited)

#### 8. Grid frequency

Grid frequency measured on grid power meter sensor

## ev fleet

Overview and configuration of EVSE station. Up to 7 external EVSE supported.

HEMS Configurator v2.	0.1							- 0
RDX Charger	RDX 40106 🔺	A MG	RDX 31490 🔺	EVSE INCH	RDX 40001	нр 🛦	Iskra	home
$\bigcirc$								
V not connected					EV not connected			
3 phases wer: 0 W					3 phases Power: 0 W			
GE max: 0 A c current: 17 A st session:					EVSE max: 0 A Max current: 20 A Last session:			
ime 435 h 22 min hergy 51785 Wh					Time 0 h 00 min Energy 0 Wh			
Settings					Settings			
Priority charg.					Priority charg.			
Locked Allow charging					Locked Allow charging			
with ventilation Disable button					<pre>with ventilation Disable button</pre>			
Turn LED off after 3 minutes of inactivity					Turn LED off after 3 minutes of inactivity			
nomy charging: Current: 6 A					Economy charging:			
Charge only at LO tariff					Charge only at LO tariff			
Charge with surplus energy					Charge with surplus energy			
ter SN: 0					2 Slave SN: 40001 ✓			
nt log RFID_QR								
EVSE works as slave								
it if connection h master lost: 6 A <sup>1</sup>								
Lost: 6 A*	1.12 HEMS SN: 400	00 (v1.2.7b)						

#### 1. EVSE - RDC Charger

#### **RDC** charger

#### 2. Additional EVSE (charging station) linked to RDC charger

EVSE supports up to 7 charging stations. Settings are as for RDC Charger.

Slave SN: Serial number of slave charger

Green tick  $\rightarrow$  control of slave by master is allowed,

Red X  $\rightarrow$  control of slave by master is disabled.

## io mux

Overview and configuration of input/output ports IO mux

#### Software

IO	mu	х									
	1	Wireless	relay WR-1 out	out function				Slave	device IP address		
	act.	status	output fu	nction	out mode			Device	IP address	SN	
WR 1	×				normal			Grid		0	
WR 2					normal			PV		0	
WR 3	🗹 ок				inverted					Θ	
WR 4					normal					0	
WR 5					normal			eStore		Θ	timetabl
WR 6					normal					0	
WR 7					normal			Robo Charger		0	
WR 8	🗹 ок		HP 1 channel 1		inverted <sup>1</sup>			EVSE c40106		40106	
	IEMS LIN	nut and i	output function	Julnad conn	ection)			DHW		0	
					out mode			EVSE c31490		31490	
								EVSE INCH		Θ	
					normal			EVSE c101		0	
					normal			HP		e 4	ev flee
					normal			Iskra	0, 0, 0, 0	0	
					normal						
					normal						
					normal						
					normal						
					normal						
					and and a second						
					2						
1.72	loggre	consume	Heat pump :	supported op	eration mode						
						Increased +	Enter number				
		Off	Reduced	Normal	Increased	add. heater	of channels				
Heat p	ump 1						2				
Heat p	ump 2						1.000				
Heat p	ump 3						3				
Heat p	ump 4						1 3				

#### 1. Wireless relay WR-1 output function

In the left column are WR modules WR-1 (max 8) with corresponding status (active + communication status). To each WR could be assigned HEMS function (e.g. digital, linker reset, router reset, heat pump channel etc) with output mode (normal or inverted).

#### 2. HEMS input and output function (wired connection) - not for EVSE available

In the left column are MC controller ports to which could be assigned MC-230 functions (digital, linker reset, router reset, etc) with output mode (normal or inverted).

Default settings are for e.g.  $QX0 \rightarrow digital 1$  while digital 1 is defined for consumer 1 on settings page. Change to define new function role to QX0 port e.g. for linker reset

Enable consumer at input IX0,IX1 or IX2 means that dedicated consumer will be managed (ON/OFF) by input signal on IX0,IX1 or IX2. For example, if thermostat signal is wired to IXO port and "Enable consumer 1" to IX0, while thermostat is active, consumer 1 is active and otherwise.

Limitations: one temperature sensor is allowed, one consumer could be managed by one input only.

#### 3. Heat pump supported operation mode

To control Heat pump by EVSE, define supported operation(control) mode based on heat pump specification. E.g. SGRHP supports external control by two channels (Off, Normal, Increased and Increased + additional heater) thus select them in table to enable functionality.

Note: Before selecting modes, heat pump must be defined in setting page!

#### 4. Slave device IP address

For device (PV inverter or external EVSE) define its IP address.

# settings

HEMS Configurat	tor v201									- 0	×
HEMS ✓ eStor × HIQ H × Virtu	e SN: 16853 ⊠ enab lome SN:0 ⊠ enab wal grid PS: ⊠ enab					Use the IP add Subnet Defaul DNS se	an IP address an following IP ad ress: 192 mask: 255 t gateway: 192	ddress (stati .168. 0.160 .255.255. 0	c IP)		]
	<pre>mal temperature: 29,9°C is (wired) cycle time: 5</pre>		ycle time: 6977m	is Mor	dbus (TCP) d	cycle t	ime: 413ms		1		
SOURCES	icon	source man	-		meter	sub		new device		tariff	
Grid PV	Grid A PV plant % /  /  X	✓ 0× ✓ 0× × / × /	ade ade ade ade		PH3-E-D PH1-E-D 1/ /	n	/			8 DLM	
eStore	Battery	× / × /	ade		1					ev fleet	
Unknown CONSUMERS	/ ×	consumer ma			meter	sub	output	man.time P n	nominal 🕑	IO mux	
ROX Charger Nain PS DHW ROX 11490 EVSE INCH RDX 40001 HP Iskra	Electric car Nome Nater boiler Electric car Electric car Electric car Heat-pump Nome	✓ 0K × / × / × / ✓ 0K ✓ 0K	ada ada ada ada ada ada ada	d del d del d del d del d del	PM3-E-D / / / / PM1-E-D PM3-I-D 6		EVSE inter. Digital-2 Digital-3 / / / HP 1 /	Omin Omin	800 X 10000 X X X X X X X	settings	
init p lon tue 09:45:52 202			10 X	Scan w-	less dev. backu allow au	p	/ WR binding resto		en idle	exit autodetect	13
modu To pair 1.Turn 2.Withi	ess WM a les pairin a new module ON target mod n 10 seconds module(s)	g (s):	e(s)"								

1. System settings		
eStore	c	eStore serial number (automatically detected or can be entered manually).
	[] enable	When selected EVSE will obtain necessary data (power, voltage) directly from battery storage system, no need to additional power sensor.
	[detect]	eStore address is cleared and new eStore can be detected.

HIQ Home       C       HIQ Home serial number (automatically detected or can be entered manually).         [] enable       When checked HEMS will read Grid power and energy from HIQ Home (so there is no need to duplicate power-sensor).         [] detect1       HIQ Home address is cleared so new can be detected.         Virtual grid PS       [] enable       Select if system is without main grid power meter. Energy, power and currents are calculated from other power meters.         Internal temperature       Temperature inside of EVSE       Cumulative reading time of all wireless connected power sensor in ms         Modbus (wireless) cycle time       Cumulative reading time of all wireless connected power sensor in ms         Modbus (TCP) cycle time       Cumulative reading time of all TCP connected devices in ms         IP address       IP address of EVSE         DHCP       Select for DHCP to obtain an IP address automatically → apply and save to confirm.         Note: If static IP settings are wrong, we wont be able to access RDC Charger any more!!!         Restart EVSE with jumper between IX1-GND to return RDC Charger to DHCP settings.         2. Sources and Consumers settings table         Source istaus       Source icon         3. Device status       Status OK, Warning, Error, Detected         4. Device message       Messages related to source or consumer power sensor is connected via WM-1 module         Device tatas       Source oronsumer power sen			5010				
energy from HIQ Home (so there is no need to duplicate power-sensor).       [detct]     [HQ Home address is cleared so new can be detected.       Virtual grid PS     [] enable     Select if system is without main grid power meter. Energy, power and currents are calculated from other power meters.       Internal temperature     Temperature inside of EVSE       Modbus (wireless) cycle time     Cumulative reading time of all wireless connected power sensor in ms       Modbus (trCP) cycle time     Cumulative reading time of all TCP connected devices in ms       IP address     IP address of EVSE       DHCP     Select for DHCP to obtain an IP address automatically → apply and save to confirm.       Note: If static IP settings are wrong, we won't be able to access RDC Charger any more!!! Restart EVSE with jumper between IX1-GND to return RDC Charger to DHCP settings.       2. Sources and Consumers     Source name       icon     Source name       source and consumer     Source or consumer power sensor management       message     Messages related to source or consumer power sensor       Source configuration     add     Associate new power sensor from source or consumer       Configuration     in/ex     Power sensor to source or consumer       6. Device type     Source or consumer power sensor to source or consumer & configure it as new power-sensor       6. Device type     Source or consumer power sensor to source or consumer & configure it as new power-sensor       7. Submet	HIQ Home	C					
Virtual grid PSI etected.Virtual grid PS[] enableSelect if system is without main grid power meter. Energy, power and currents are calculated from other power meters.Internal temperatureTemperature inside of EVSEModbus (wireless) cycle timeCumulative reading time of all wireless connected power sensor in msModbus (TCP) cycle timeCumulative reading time of all TCP connected devices in msModbus (TCP) cycle timeCumulative reading time of all TCP connected devices in msIP addressIP address of EVSEDHCPSelect for DHCP to obtain an IP address automatically $\rightarrow$ apply and save to confirm.Note: If static IP settings are wrong, we won't be able to access RDC Charger any more!!!Restart EVSE with jumper between IX1-GND to return RDC Charger to DHCP settings.Source and Consumers settings tableSource for3. Device statusStatusStatusStatusStatusStatusSource or consumer power sensor managementmanagementmanagementaddAssociate new power sensor from source or consumer power sensor from source or consumer power sensor form source or consumer for consumer & configurationaddAssociate new power sensor form source or consumer & configurationaddAssociate new power sensor form source or consumer & configure it as new power-sensorDHCPSubmeter optionSubmeter optionSubmeter optionSubmeter optionSubmeter optionSubmeter optionSubmeter option </th <th></th> <td>[] enable</td> <td>energy from HIQ Home (so there is no need to</td>		[] enable	energy from HIQ Home (so there is no need to				
Internal temperature       Temperature inside of EVSE         Modbus (wireless) cycle time       Cumulative reading time of all wireless connected power sensor in ms         Modbus (trCP) cycle time       Cumulative reading time of all wireless connected power sensor in ms         Modbus (tCP) cycle time       Cumulative reading time of all more automatically → apply and save to confirm.         Static IP       Select for DHCP to obtain an IP address automatically → apply and save to confirm.         Note: if static IP settings are wrong, we won't be able to access RDC Charger any more!!!         Restart EVSE with jumper between IX1-GND to return RDC Charger to DHCP settings.         Sources and Consumers       Source icon         3. Device status       Source or consumer power sensor management         message       Source or consumer power sensor to source or consumer power sensor is connected via WM-1 module         5. Device configuration       add       Associate new power sensor from source or consumer power sensor from source or consumer deal         6. Device type       add       Associate new power sensor from source or consumer power sensor from source or consumer from sensor from source or consumer from sensor from source or consumer and power sensor from source or consumer and power sensor from source or consumer from sensor from source or consumer from sensor from source or consumer and power sensor from source or consumer and power sensor from source or consumer from sensor		[detect]					
Modbus (wired) cycle time       Cumulative reading time of all wired power sensor in ms         Modbus (TCP) cycle time       Cumulative reading time of all wireless connected power sensor in ms         Modbus (TCP) cycle time       Cumulative reading time of all TCP connected devices in ms         Modbus (TCP) cycle time       Cumulative reading time of all TCP connected devices in ms         IP address       IP address of EVSE         DHCP       Select for DHCP to obtain an IP address automatically → apply and save to confirm.         Static IP       Set static IP to EVSE → apply and save to confirm.         Note: If static IP settings are wrong, we won't be able to access RDC Charger any more!!!       Restart EVSE with jumper between IX1-GND to return RDC Charger to DHCP settings.         2. Sources and Consumers settings table       Source con         SOURCES       Source name         icon       Source cor         3. Device status       Status OK, Warning, Error, Detected         4. Device message       Source or consumer power sensor management         maagement       message       Messages related to source or consumer power sensor from source or consumer         for end figuration       add       Associate new power sensor from source or consumer         for end figuration       add       Associate new power sensor from source or consumer         for end figuration       in/ex	Virtual grid PS	[] enable	meter. Energy, power and currents are				
time         Valuation           Modbus (wireless) cycle time         Cumulative reading time of all wireless connected power sensor in ms           Modbus (TCP) cycle time         Cumulative reading time of all TCP connected devices in ms           IP address         IP address of EVSE           DHCP         Select for DHCP to obtain an IP address automatically → apply and save to confirm.           Static IP         Set static IP to EVSE → apply and save to confirm.           Note: If static IP settings are wrong, we won't be able to access RDC Charger any more!!! Restart EVSE with jumper between IX1-GND to return RDC Charger to DHCP settings.           2. Sources and Consumers settings table         Source name           SOURCES         Source icon           Source and consumers         Source or or sensor management           message         Messages related to source or consumer power sensor           Source and consumer management         Associate new power sensor to source or consumer           Source configuration         add         Associate new power sensor from source or consumer & configure it as new power-sensor           Source type         outined in grew plut connection <sup>1</sup> Internal circuit. Energy division for this device is not part of internal circuit. Energy division for this device is ignored and outineed in grew plut soin for this device is ignored and outlineed in grew plut soin for this device is ignored and outlineed in grew plut soin for this device is ignored and outlineed in grew plut so	Internal temperature	Temperatu	re inside of EVSE				
time         sensor in ms           Modbus (TCP) cycle time         Cumulative reading time of all TCP connected devices in ms           IP address         IP address of EVSE           DHCP         Select for DHCP to obtain an IP address automatically → apply and save to confirm.           Static IP         Set static IP to EVSE → apply and save to confirm.           Note: If static IP settings are wrong, we won't be able to access RDC Charger any more!!! Restart EVSE with jumper between IX1-GND to return RDC Charger to DHCP settings.           2. Sources and Consumers settings table         Source name           SOURCES         Source icon           3. Device status         Status OK, Warning, Error, Detected           4. Device message         Source or consumer power sensor management           management         message         Messages related to source or consumer power sensor to source or consumer power sensor is connected via WM-1 module           5. Device configuration         add         Associate new power sensor to source or consumer for any more or consumer           6. Device type         del         Disassociate power sensor to source or consumer & configure it as new power-sensor           7. Submeter option         in/ex         Power plant connection <sup>1</sup> 7. Submeter option         in/ex         Power plant connection <sup>1</sup> 7. Submeter option         check if this power meter or device is not pa	-	•					
IP address       IP address of EVSE         DHCP       Select for DHCP to obtain an IP address automatically → apply and save to confirm.         Static IP       Set static IP to EVSE → apply and save to confirm.         Note: If static IP settings are wrong, we won't be able to access RDC Charger any more!!! Restart EVSE with jumper between IX1-GND to return RDC Charger to DHCP settings.         2. Sources and Consumers settings table       Source icon         SOURCES       Source icon         3. Device status       Status OK, Warning, Error, Detected         4. Device message       Source or consumer power sensor management management         Source configuration       Source or consumer power sensor to source or consumer         5. Device configuration       add       Associate new power sensor to source or consumer         6. Device type       del       Disassociate power sensor from source or consumer         6. Device type       Source or consumer power sensor to source or consumer         7. Submeter option       in/ex       Power plant connection <sup>1</sup> 7. Submeter option       Check if this power meter or device is not part of internal circuit. Energy division for this device is ignored and outlined in green color.         8. New device       Detected new power sensor.       gene color.         9. Device output       Source output       Source or	-		-				
DHCP     Select for DHCP to obtain an IP address automatically → apply and save to confirm.       Static IP     Set static IP to EVSE → apply and save to confirm.       Note: If static IP settings are wrong, we won't be able to access RDC Charger any more!!! Restart EVSE with jumper between IX1-GND to return RDC Charger to DHCP settings.       2. Sources and Consumers settings table     Source icon       3. Device status     Source icon       3. Device status     Status OK, Warning, Error, Detected       4. Device message     Source or consumer power sensor management       message     Messages related to source or consumer power sensor is connected via WM-1 module       5. Device configuration     add     Associate new power sensor from source or consumer       ocnsumer     add     Associate new power sensor from source or consumer       feature     Source or consumer power sensor from source or consumer       power sensor     Configuration     add       Associate new power sensor from source or consumer     Disassociate power sensor from source or consumer       feature     Source or consumer power-sensor type       configuration     in/ex     Power plant connection <sup>1</sup> feature     Source or consumer power-sensor type       configuration     in/ex     Power plant connection <sup>1</sup> sub     Check if this power meter or device is not part of internal circuit. Energy division for this device is ignored and outlined in green col	Modbus (TCP) cycle time		reading time of all TCP connected devices in				
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SOURCES       Source name         icon       Source icon         3. Device status       Status OK, Warning, Error, Detected         4. Device message       Status OK, Warning, Error, Detected         source and consumer management       Source or consumer power sensor management         message       Messages related to source or consumer power sensor         Source configuration       New sensor is connected via WM-1 module         5. Device configuration       add       Associate new power sensor to source or consumer         Configuration       add       Associate new power sensor from source or consumer         del       Disassociate power sensor from source or consumer         meter       Source or onsumer power power sensor type         meter       Source or onsumer power power sensor type         sub       Check if this power meter or device is not part of internal circuit. Energy division for this device is ignored and outlined in green color.         8. New device       Detected new power sensor.         9. Device output       Use output	-	-	• •				
icon       Source icon         3. Device status       Status OK, Warning, Error, Detected         4. Device message       Status OK, Warning, Error, Detected         source and consumer management       Source or orsumer power sensor management         management       Source or consumer power sensor is connected via WM-1 module         5. Device configuration       Nessage related to source or consumer power sensor is connected via WM-1 module         5. Device configuration       add       Associate new power sensor to source or consumer         6. Device type       add       Disassociate power sensor from source or consumer & configure it as new power-sensor         6. Device type       Source or orsumer power power sensor type         configuration       in/ex       Power plant connection <sup>1</sup> 7. Submeter option       in/ex       Power plant connection <sup>1</sup> 8. New device       Check if this power meter or device is not part of internal circuit. Energy division for this device is ignored and outlined in green color.         8. New device       Jetected new power sensor.       Jetected new power sensor.         9. Device output       Jetected new power sensor.       Jetected new power sensor.	2. Sources and Consumers s	settings tabl	e				
3. Device status       Status OK, Warning, Error, Detected         4. Device message       Source or consumer power sensor management         source and consumer management       Source or consumer power sensor management         message       Messages related to source or consumer power sensor         2       Power sensor         2       Power sensor is connected via WM-1 module         5. Device configuration       add       Associate new power sensor to source or consumer         6. Device type       del       Disassociate power sensor from source or consumer & configure it as new power-sensor         6. Device type       Source or consumer power power sensor type         configuration       in/ex       Power plant connection <sup>1</sup> 7. Submeter option       Check if this power meter or device is not part of internal circuit. Energy division for this device is ignored and outlined in green color.         8. New device       Detected new power sensor.         9. Device output       U	SOURCES	Source name					
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4. Device message         source and consumer management         management         Source or consumer power sensor management         message       Messages related to source or consumer power sensor         power sensor       Power sensor is connected via WM-1 module         5. Device configuration       add       Associate new power sensor to source or consumer         Configuration       add       Associate power sensor from source or consumer         del       Disassociate power sensor from source or consumer & configure it as new power-sensor         6. Device type       Source or consumer power sensor type         configuration       in/ex       Power plant connection <sup>1</sup> 7. Submeter option       Sub       Check if this power meter or device is not part of internal circuit. Energy division for this device is ignored and outlined in green color.         8. New device       Detected new power sensor.         9. Device output       June to the sensor.	3. Device status						
source and consumer management         Source or consumer power sensor management           message         Messages related to source or consumer power sensor           Imagement         Imagement           Imagement         Power sensor           Imagement         Imagement           Imagement         Power sensor           Imagement         Imagement           Imagement         Power sensor           Imagement         Imagement           Imagement	Status	Status OK,	Warning, Error, Detected				
management         message         Messages related to source or consumer power sensor           Image imagement         Image i	4. Device message						
Intersection       power sensor         power sensor       power sensor         S. Device configuration       add       Associate new power sensor to source or consumer         del       Disassociate power sensor from source or consumer         del       Disassociate power sensor from source or consumer & configure it as new power-sensor         6. Device type		Source or c					
5. Device configuration       add       Associate new power sensor to source or consumer         del       Disassociate power sensor from source or consumer & configure it as new power-sensor         6. Device type       occonfiguration         meter       Source or consumer power-sensor type         configuration       in/ex         Power plant connection <sup>1</sup> 7. Submeter option         sub       Check if this power meter or device is not part of internal circuit. Energy division for this device is ignored and outlined in green color.         8. New device         Detected new power sensor.         9. Device output	management	message					
Configuration       add       Associate new power sensor to source or consumer         del       Disassociate power sensor from source or consumer & configure it as new power-sensor         6. Device type       Source or or consumer power-sensor type         meter       Source or or sumer power-sensor type         configuration       in/ex       Power plant connection <sup>1</sup> 7. Submeter option       Check if this power meter or device is not part of internal circuit. Energy division for this device is ignored and outlined in green color.         8. New device       Detected new power sensor.         9. Device output		×	Power sensor is connected via WM-1 module				
Image: consumerdelDisassociate power sensor from source or consumer & configure it as new power-sensor6. Device typeSource or Usumer power-sensor typemeterSource or Usumer power-sensor typeconfigurationin/ex7. Submeter optionPower plant connection1subCheck if this power meter or device is not part of internal circuit. Energy division for this device is ignored and outlined in green color.8. New deviceDetected new power sensor.9. Device outputImage: Source output	5. Device configuration						
6. Device type       consumer & configure it as new power-sensor         meter       Source or Jumer power-sensor type         configuration       in/ex       Power plant connection <sup>1</sup> 7. Submeter option       Check if this power meter or device is not part of internal circuit. Energy division for this device is ignored and outlined in green color.         8. New device       Detected new power sensor.         9. Device output	Configuration	add	•				
meter       Source or consumer power-sensor type         configuration       in/ex       Power plant connection <sup>1</sup> 7. Submeter option        Check if this power meter or device is not part of internal circuit. Energy division for this device is ignored and outlined in green color.         8. New device          Detected new power sensor.          9. Device output		del					
configuration       in/ex       Power plant connection1         7. Submeter option       Check if this power meter or device is not part of internal circuit. Energy division for this device is ignored and outlined in green color.         8. New device       Energy division for this device is ignored and outlined in green color.         9. Device output       Energy division for this device is ignored and outlined in green color.	6. Device type						
7. Submeter option         sub       Check if this power meter or device is not part of internal circuit. Energy division for this device is ignored and outlined in green color.         8. New device         Detected new power sensor.         9. Device output							
subCheck if this power meter or device is not part of internal circuit. Energy division for this device is ignored and outlined in green color.8. New deviceDetected new power sensor.9. Device outputImage: Color this device is ignored and this device is ignored.	-	in/ex	Power plant connection <sup>1</sup>				
circuit. Energy division for this device is ignored and outlined in green color.  8. New device Detected new power sensor.  9. Device output	-						
Detected new power sensor. 9. Device output	sub	circuit. Energy division for this device is ignored and					
9. Device output	8. New device						
•	· · · · · · · · · · · · · · · · · · ·						
Soloct consumer output type	-						
Select consumer output type	output	Select consumer output type					

Managed consumer manual override timer					
Enter power for device in case where power sensor is not assigned to device.					
Enable timetable					
ameters					
Init all parameters to default values					
Save all parameters to permanent memory					
Read all parameters from permanent memory					
Parameters will be automatically saved to permanent memory in 15 minutes after last parameter change					
Press to start scanning for power sensors wirelessly connected via WM-1 module as well as for WR-1 relay. Scanning is active for 5 minutes.					
Press to pair new WM-1 or/and WR-1.					
Backup all parameters to PC					
Restore all parameters from PC backup <sup>2</sup>					
Click to find EVSE in local network.					

<sup>1</sup> only for the first power plant

<sup>2</sup> older versions of backup files may be used. Any unsuccessfully backup or restored parameters will be displayed but operation will end successfully if you use **continue**.

# **RDC Charger Update**

RDC Charger application will detect update automatically.

🔯 RDC Charger v201	1	-	- ×
RDX Char	State: Phases: Power: EVSE max: Max current: Last session: Time Energy		A SE paused phases 0 W 0 A 2 A 01 min 055 Wh
Disabpres	Please updat harger appli ting with ventions of to conti of inactivity		n
□ Charge w ■ EVSE works Limit if co	nly at LO tarif ith surplus enr OK as slave V Pa	ngy <b>1</b> ister S	N: 31490
			> > flaurator
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Update required	home	
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RDC Charger application is not up to date.		
Go to download page and update RDC Charger application to version 128		
2 Go to download page Remind me later		
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#### Procedure to update RDC Charger application is as follows:

- press OK and **make sure to follow** further instructions on page (1) (2)
- hit the button Go to download page (2) which will open internet browser on download page, download and install
- hit the button Remind me later to postpone update for 5 minutes