Ladergy

User manual for the Ladergy Mobile ONE

Contents

2026

1. Charger Description

1.1 Brief Description and Technical Information

By using this charger, you gain access to a modern solution for charging electric vehicles.

Thanks to its built-in digital capabilities, including control through the web interface, you can conveniently monitor the device status and the charging process.

Parameter	Characteristics
Maximum current (depending on model)	16 A /32 A /40 A
Leakage current control	30 mA
Charging current setting	7 A - 16 A (adjustable up to 1 A), if 16A+ (adjustable up to 2 A)
Input voltage range	90 V-260 V~
Digital overvoltage protection	260 V~
Physical overvoltage protection	275 V~
Operating temperature range	-25 °C... +50 °C
Storage temperature range	-30 °C...+60 °C
Temperature control of the input connector	NTC 80 °C
Digital connections and control	via WiFi
Remote control	Web app: my.ladergy.com
Display	IPS 2 in
Software update	Remote
Adaptive charging mode	2 types (manual, automatic)
Scheduled charging	Yes
Protection class	IP44
Dimensions (H×W×L) of the device GEN1 GEN2	55 × 100 × 65 mm 70 × 190 × 90 mm
Package dimensions (H×W×L)	100 × 410 × 390 mm
Total packaged weight	from 3,5 kg
Warranty	12 months

1.2 Display Interface Overview

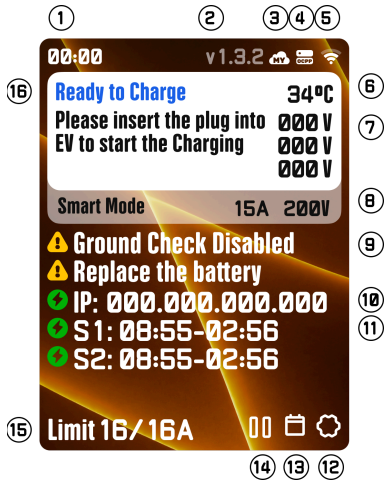
The charger has a display and one control button. The yellow indicator shows the active menu item. A short press moves between items. A long press confirms the selection or opens a menu item. Gray means the function is off, and yellow means it is active.

If the display has turned off, briefly press the button to turn it on again. The screen turns off automatically after 60 seconds.

You can start charging immediately, without any additional setup.
1. Connect the charger to the power supply.
2. Insert the connector into the vehicle.
3. If Autostart is enabled in the settings, charging will begin automatically. If Manual mode is selected, press the button on the charger to start charging.

4. Done. The device is ready to operate immediately after connection.

The screen shows the following indicators and settings:

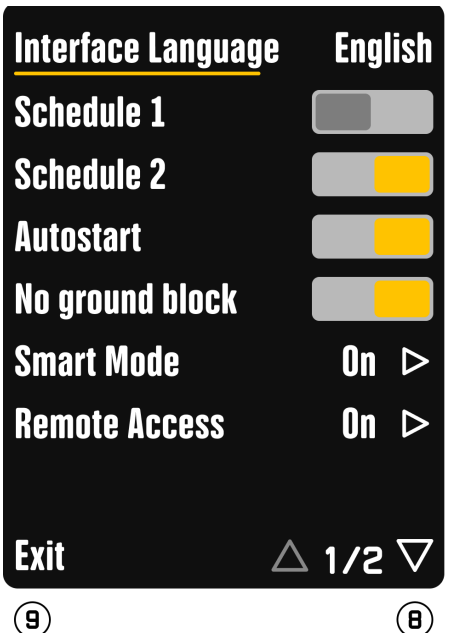


1. Charger system time.
2. Device firmware version
3. Connection status to the remote management service via my.ladergy.com.
4. Connection status to the OCPP server.
5. Wi-Fi connection status and signal strength.
6. Charger temperature.
7. Grid voltage by phase.
8. Smart Mode - adaptive current control mode. It is enabled through the settings menu.
9. System messages and warnings.
10. Charger IP address in the local network.
11. Charging schedule (P1 and P2).
12. Access to the charger settings menu.
13. Access to charging session history.
14. Start or stop the charging session.
15. Set the current limit during a charging session / actual maximum current according to the device.
16. Current charger status.

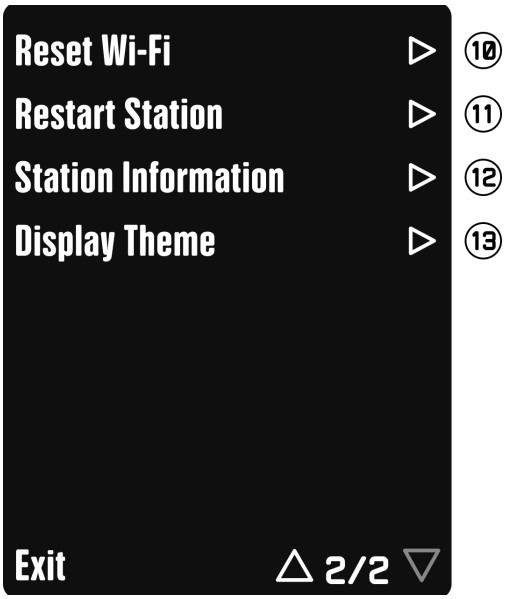
In the Limit menu (15), a short press of the button changes the current limit. Up to 16 A, the adjustment step is 1 A. Above 16 A, it is 2 A. This lets you limit the charging current if the power supply cannot handle a high load. A lower value means slower but more stable charging.

When the charger is powered on for the first time, the message “NOT VALID TIME” may appear. Be sure to update the date and time for the charging schedule to work correctly. To do this, connect to the device via Wi-Fi, open 192.168.4.1 (or ladergy.local) in your browser, then go to: Device Settings → System Time and click “Update Time.”

The "Settings" menu (12) lets you manage additional charger functions.



1.Selecting the charger interface language.
2. Activating the first charging schedule range. Schedule setting is available via ladergy.local or my.ladergy.com
3. Activating the second charging schedule range. Schedule setting is available via ladergy.local or my.ladergy.com
4. Enable automatic charging start after the vehicle is connected.
5. Grounding check. Disabling it allows charging even without grounding. This is not a warranty case.
6. Open Smart Mode adaptive settings.
7. Enable data transmission for remote charger control via via ladergy.local or my.ladergy.com
8. Switch between menu pages.
9.Exit the settings menu.

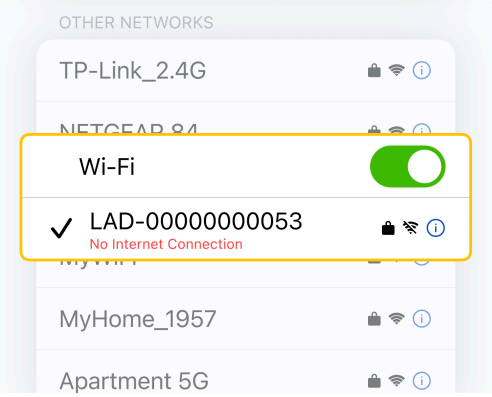


10. 10. Reset Wi-Fi settings if the Wi-Fi password has been lost or forgotten.
11. Restart the charger.
12. View charger information.
13. Change the display theme.

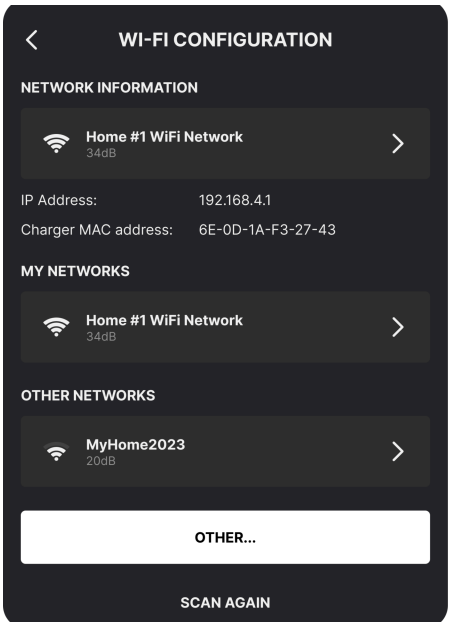
For more advanced control, connect to the charger locally. Follow the simple steps described in Section 2.

2. Charger Web Interface Description

To control the charger from home, connect it to your home Wi-Fi network. The charger and your phone must be on the same network.



Step 1. Connect your mobile phone to the charger Wi-Fi network. Mobile data must be turned off. In your phone browser, open ladergy.local, If the page does not open, enter 192.168.4.1. On the web app home page, open the "Connection" section.



Step 2. In the "Wi-Fi Settings" section, select the required network from the "Other Networks" list. If it is not shown, tap "Scan Again." To add a network manually, tap "Other...".

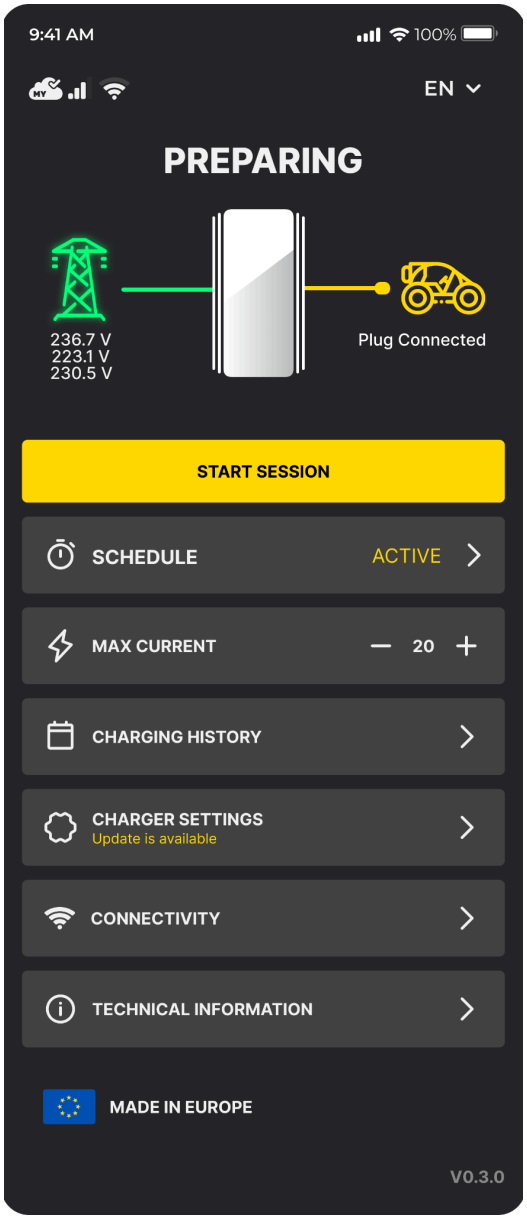
The current network is shown in the "Network Information" section. Previously saved networks are listed in "My Networks." You can reconnect to them without entering the password again. Saved connections can also be edited or removed if needed.

Крок 3. На екрані «Додати мережу» введіть назву Wi-Fi мережі та пароль, а потім натисніть «Зберегти».

Step 3. On the "Add Network" screen, enter the Wi-Fi network name and password, then tap "Save." After connection, the web app is available through ladergy.local or the IP address shown on the device home screen.

The home screen displays the current charger status and provides access to the main charging controls for convenient everyday use.

The interface includes the following sections:



1. Select the interface language.
2. Display the charger status and whether a vehicle is connected.
3. "Start Charging" button - manual start of a charging session if Manual mode is enabled in settings.
4. Schedule - configure charger operation by schedule.
5. Maximum Current - set the maximum charging current.
6. Charging History - view previous charging sessions.
7. Device Settings - configure charger parameters.
8. Connection - configure the charger connection to the internet.
9. Technical Information - view technical details about the charger.
10. V0.3.0 - current app software version.

The home screen also displays the current charger status:

- Standby - the vehicle is not connected.
- Preparation - the vehicle is connected and the device is preparing to start the charging session.
- Schedule - charging is waiting to start according to the configured schedule.
- Charging - an active charging session is in progress.
- Offline - the device is unavailable or not connected to the network.
- Error - a charger fault has been detected, and details about the error are shown below.

Below is a description of each section and its function.

2.1 Device Schedule Settings

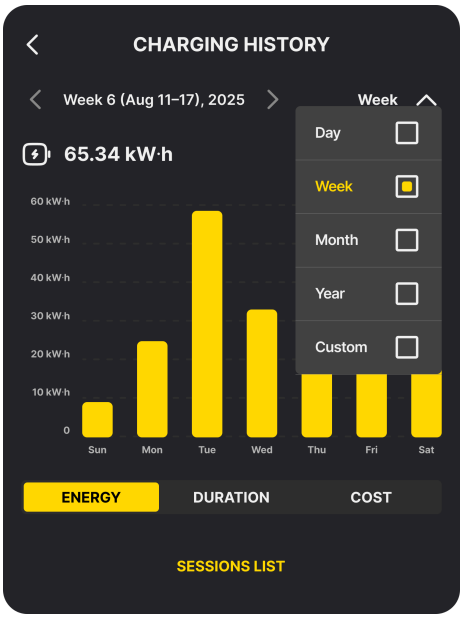
You can set a convenient charging time by defining the session start and end time. A separate maximum current can be set for each interval. If the schedule is disabled, charging starts immediately after the charger is connected to power and to the vehicle.

If Manual mode is selected in the connector lock control settings, the charger can be started from the home screen with the button, ignoring the schedule.

2.2 Charging Current Adjustment

The desired current can be set using the "Maximum Current" selector. Adjustment starts from 7 A in 1 A steps.

2.3 Charging History



The "Charging History" section is intended for viewing previous charging sessions and basic charger usage statistics.

The selected period is displayed at the top of the screen. The user can review statistics for a day, week, month, year, or set a custom period.

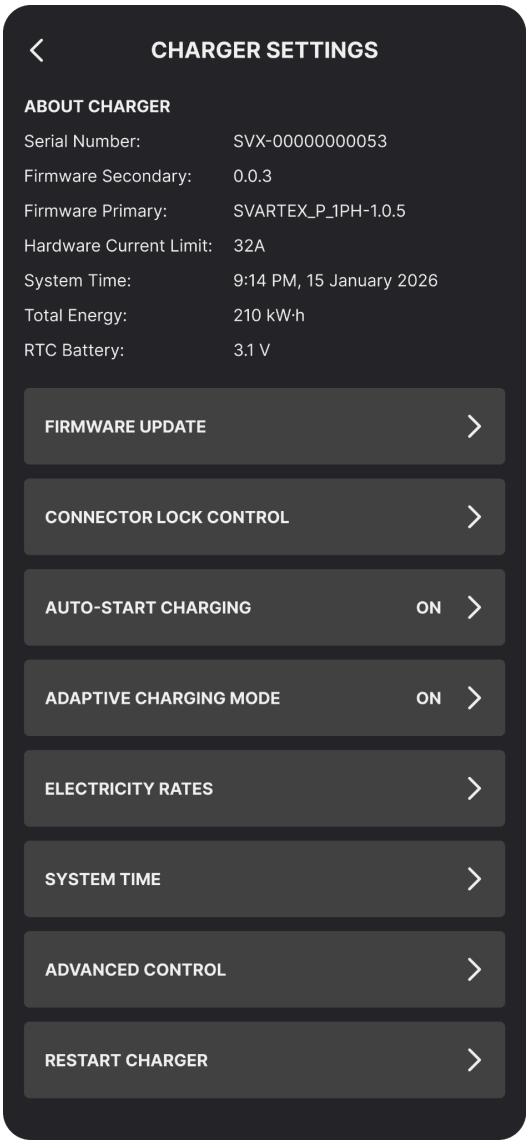
Use the arrows next to the selected time range name to move between periods.

2.4 Device Settings

Here, the user can review the main technical parameters of the charger and change its key settings. Service information is displayed at the top of the screen, and the sections for device control are listed below.

Device information:

- Serial number: used for identification, remote access, and support requests.
- Additional firmware: STM firmware version.
- Main firmware: primary firmware version.
- Hardware current limit: the maximum current the charger can pass.
- System time: the current device time.
- Total energy: the total amount of electricity delivered.
- RTC battery: the battery voltage of the internal real-time clock. If the voltage is too low, time and schedule settings may not be saved.



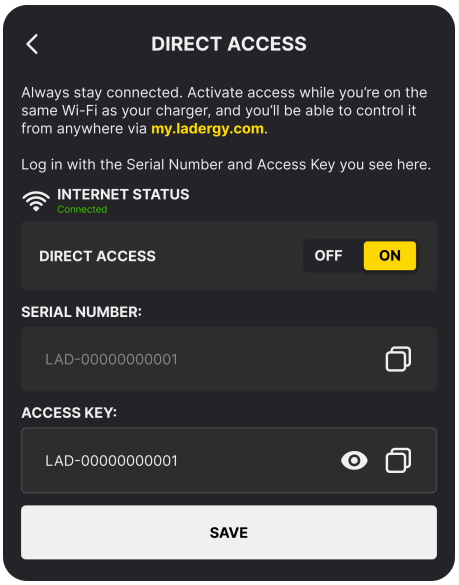
Main settings

1. Firmware Update: section for checking the current software version and installing updates.
2. Connector Lock: configure the locking mode of the charging connector.
3. Charging Autostart: choose how charging begins - automatically after connecting the cable or manually from the home screen.
4. Adaptive Mode: select the charging mode that automatically adjusts the current when voltage changes. On - voltage value monitoring (suitable for all vehicles); % - percentage voltage drop monitoring (suitable for Tesla).
5. Electricity Rates: set charging cost values to estimate the session price.
6. System Time: a separate section for viewing and updating the device time.
7. Advanced Control: additional technical parameters intended for experienced users or service setup. They should not be changed unless necessary.
8. Device Restart: restart the charger to apply changes or resolve temporary issues.

2.5 Charger Connection

This section contains connection settings for Wi-Fi, OCPP, remote access, and the device access point..

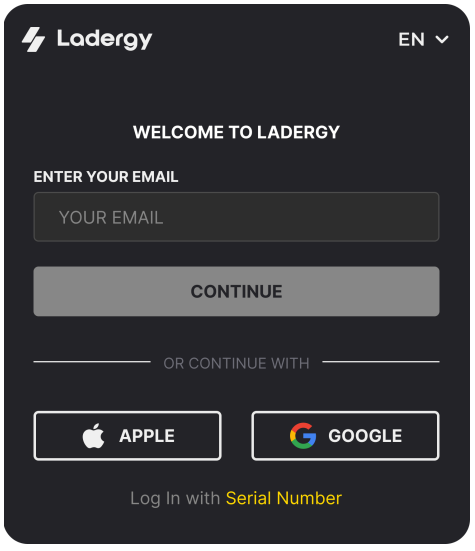
2.5.1 Remote Access



Remote access allows you to control the device over the internet through my.ladergy.com, even when you are not nearby.

To activate this function, your phone or computer must be connected to the same Wi-Fi network as the device.

Step 1. Open the device web interface. You can access it:
1.via ladergy.local;
2.via the IP address shown on the device home screen.
Step 2. Open the "Remote Access" section.
Step 3. Enable the "Remote Access" switch and save the changes.



For future sign-in, open a browser on your mobile device and enter my.ladergy.com in the address bar.

After activation, the following are used for sign-in:
1. user email address;
2. device serial number;
3. remote access key.

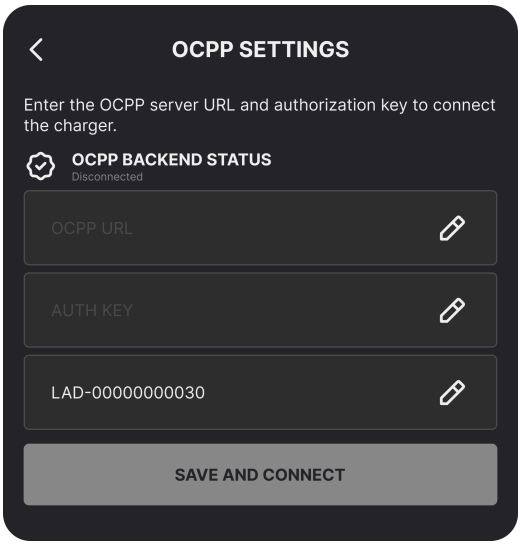
If the device is connected to Wi-Fi and has internet access, its status and settings will be available remotely..

To sign in, use your email address, the device serial number, and the access key. You can also link your Apple or Google account for faster sign-in.

You can add all your Svartex devices to one account and switch between them when needed.

2.5.2 OCPP Server Connection

The OCPP settings section is used to configure the charger connection to an OCPP server.



To connect to the OCPP server you selected, fill in the following fields:

1. OCPP URL: field for entering the OCPP server address.
2. Authorization Key: field for entering the access key.
3. Your device serial number.
4. Press "Save and Connect" to complete the server connection successfully.

3. Safety Instructions for Using the Charger

Operation of the charger is strictly prohibited in the following cases: if the housing is damaged in a way that compromises the sealed interior of the charger; if the EV charging cable or connector is damaged; or after a lightning strike to the charger.

- Main safety precautions when using the charger:
- do not install or use the charger near flammable, explosive, or combustible materials, chemicals, or in areas with high humidity;
- never pour water or any other liquids directly onto the charger;
- do not attempt to disassemble, repair, or modify the charger, as this may affect not only the device operation but also your personal safety;
- in case of repeated power outages, the charger must only be connected through an inverter generator;
- do not connect the charger through an extension cord; do not insert foreign objects into the charger or the connector.

4. Possible Issues and Troubleshooting

4.1 The Charging Session Did Not Start

- vehicle charging is scheduled for a later time;
- manual mode is enabled (start using the button on the home screen);
- the vehicle is fully charged;
- there may be an internal vehicle error; check the vehicle status;

- there is no power in the electrical supply;
- the charging plug is connected incorrectly; reconnect the charging cable;
- the vehicle inlet or connector is dirty; make sure the contact points are clean and try again.

4.2 Charging Is Slow or Does Not Complete

When the vehicle charging session is nearing completion, the charging speed naturally begins to decrease.

If the charger or the EV battery overheats, charging power may be reduced for safety reasons.

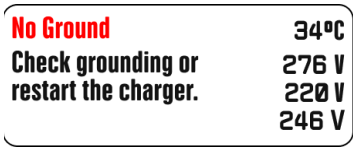
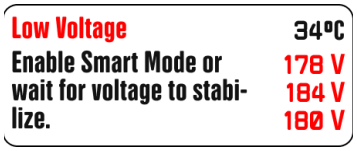
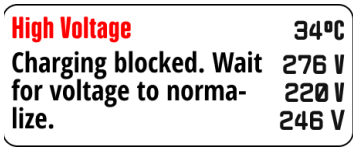
Check whether the latest firmware version is installed. This can be done in the web interface under "Firmware Update" or "Technical Information."

4.3 The Charging Cable Does Not Disconnect from the Vehicle

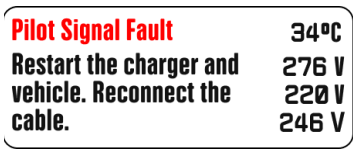
The charging session has not been ended by the vehicle. Please end the charging session and try again. Make sure the vehicle is unlocked and the charging connector has been released.

4.4 Charger Error Interpretation

Below are the main error messages and the recommended actions for the user.

	Charging has stopped because protective grounding is missing or unstable. Check the grounding connection or restart the charger. If grounding is intentionally unavailable, charging can be allowed in settings by disabling the grounding check. This mode is not recommended and is not covered by warranty.
	The mains voltage is below the allowable level. Make sure all electrical connections along the power line are securely tightened and that the power source maintains the required voltage level. Enable Adaptive Mode or wait until the network stabilizes.
	The mains voltage is above the allowable level. Charging has been temporarily stopped to protect the equipment and the vehicle. Wait until the voltage returns to normal and try to resume charging later.

Diode Fault Check the connector, inlet for damage and moisture. Try again. 34°C 276 V 220 V 246 V	Check that the inlet and connector are dry and in good condition. Disconnect the charger from the vehicle and reconnect it after a few minutes.
Safety Check Failed Turn off the charger for 1 minute and try again. 34°C 276 V 220 V 246 V	The built-in safety check failed. Disconnect the charger from power for 1 minute, make sure the connectors are clean and dry, then reconnect the device. If the error appears again, contact the charger seller for further assistance.
Software Error Restart the charger, check for updates, and try again. 34°C 276 V 220 V 246 V	A software error has been detected. Turn the charger off and on again. If a firmware update is available, install it and try charging again.
Overcurrent Reduce the current limit and try again. 34°C 276 V 220 V 246 V	The current draw exceeds the allowable level for this charger. Reduce the current limit and try charging again. If the error appears again, contact your vehicle dealer.
Ground Fault Check the connector and inlet for damage and moisture. Try again. 34°C 276 V 220 V 246 V	Disconnect the charger from the power supply, inspect the cable and the vehicle inlet for damage, then reconnect the device.
Charger Overheated Let the charger cool down and try again. 90°C 276 V 220 V 246 V	The charger temperature has exceeded a safe level. Disconnect the device from power, make sure it is not in direct sunlight or near heat sources, allow it to cool down, and try again.
Connector Overheated Let the connector cool down and try again. 90°C 276 V 220 V 246 V	The connector temperature has exceeded a safe level. Disconnect the connector from the vehicle, make sure it is not in direct sunlight or near heat sources, allow it to cool down, and try again.
Vehicle Communication Error Reconnect the cable and restart the charger. 34°C 276 V 220 V 246 V	Signal communication between the vehicle and the charger has been interrupted. Disconnect the charging cable, make sure the inlet is dry, restart the device, and reconnect the cable.
Relay Fault Charging temporarily unavailable. Service check required. 34°C 276 V 220 V 246 V	A fault has been detected in the charger power relays. Contact the charger seller for further assistance.

	The device has detected an incorrect control signal level. Contact the charger seller for further assistance.

5. Charger Care Recommendations

Clean the outer surface of the device with a soft, damp cloth. Check the charging connector for damage, foreign objects, or dirt. Clean it if necessary.

Every six months, inspect the charger and its connection, and tighten the contact connections at the power input points that supply electricity to the device to ensure reliable operation.

To ensure proper charger operation, check the condition of the onboard battery (CR 2032) approximately once every few years. If the charge is low or faults appear, such as settings not being saved, replace the battery. This helps prevent interruptions and maintains stable operation.

6. Charger Storage and Disposal

Store the packaged charger in a clean, dry place out of reach of children and animals.

Storage temperature: -30 ^{0}C to +50 ^{0}C.

After the charger is taken out of service, dispose of the device and its packaging in accordance with local disposal regulations. Electrical and electronic equipment must be disposed of separately from ordinary household waste.

Please remember that recycling materials saves raw resources and energy and makes a significant contribution to environmental protection.

7. Limitations When Using the Charger

The device operates within a voltage range of 90 to 260 V. Charging is only possible if the input voltage meets the requirements of the specific vehicle manufacturer. If the power supply cannot provide the required voltage even at the minimum current of 7 A, charging may not start.

In the event of frequent power outages or according to your power supply schedule, it is important to connect the charger correctly. If generator operation is required, use only an inverter generator. Connecting to a conventional generator may cause voltage fluctuations that can lead to faults or even damage the charger.

The device must not be used during a thunderstorm. Although it protects the vehicle from voltage surges, protection against lightning and other natural events must be installed separately by the user.

The device must not be connected to a three-phase network without a neutral conductor (380 V). The device must be powered from a network that does not exceed 260 V.

For chargers rated above 16 A, when using a Schuko adapter (EU plug), the charging current must be limited to a maximum of 16 A. It is prohibited to set a charging current that exceeds the allowable limit for any component of the power supply system.

The use of extension cords during charging is prohibited.

Opening the charger during the warranty period is prohibited. If the seal is missing or damaged, the warranty is void, except when replacing the battery of the real-time clock module. The input connector must also be protected from precipitation, and the device must not be submerged in water.

8. Warranty

To activate the warranty during first startup, press the button on the device housing. All chargers are covered by a 12-month warranty provided that the rules in Section 7, "Limitations When Using the Svartex Charger," are followed. Device compatibility with the vehicle can be checked within 14 days from the date of purchase.

Costs related to transporting a faulty product during the warranty period are not reimbursed to the owner, except for faults identified within the first 14 days after receiving the device. In the event of an unjustified claim, the costs of diagnostics and product examination are paid by the charger owner.

The seller guarantees compatibility with the vehicle for which the device is sold, as well as the ability of the device to provide the stated power. Maximum charging power depends not only on the charger itself, but also on the specific vehicle model, trim level, year of manufacture, and/or internal vehicle settings. To determine the maximum charging power of a specific vehicle, the user should consult the vehicle manufacturer's sources and/or other trusted sources, as the charger manufacturer is responsible only for the device specifications.

For warranty repair or return, the product must be complete and accompanied by an explanatory note stating the reason for the request. To contact the service center, please reach out to your dealer or write on Telegram: @ladergy_pl.

Throughout the entire period of charger use, the owner may receive technical support on any questions related to operation. During the warranty period, in a valid warranty case, the manufacturer undertakes to repair the charger or replace the electronics with new ones, or select an equivalent alternative if the required components are unavailable.

Improper maintenance of the charger voids the warranty, and the manufacturer is not responsible for defects or damage resulting from its use.

All Ladergy products and equipment must be commissioned, used and maintained by qualified personnel only. Standards, specifications and designs are subject to change from time to time and the information provided in this document may no longer be current. The latest information will be displayed on the company's website. To the extent permitted by applicable law, Ladergy shall not be liable for any errors or omissions in the information contained in this document or for the consequences of using such information.

Made in Ukraine

March 30, 2026