



# Installer & User Manual

NexBlue Edge 2  
NexBlue Edge Max  
NexBlue Delta  
NexBlue Delta Max

Online Version



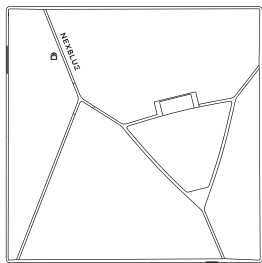


Power a Clean Future.



**NexBlue Edge 2 /  
NexBlue Edge Max /  
NexBlue Delta /  
NexBlue Delta Max**

**x1**

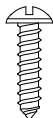


Ø 4x8 mm T20



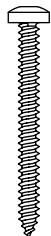
x2

Ø 4x15 mm T20



x4

Ø 5x50 mm T20



x4

Ø 8x40 mm



x4

Sealing Plug



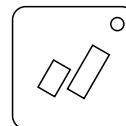
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Cable Clamp

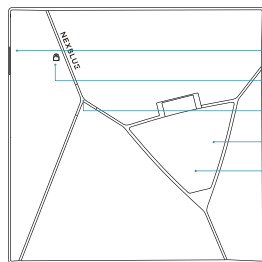


x2

NexBlue RFID card



## Features of NexBlue EV charger



1

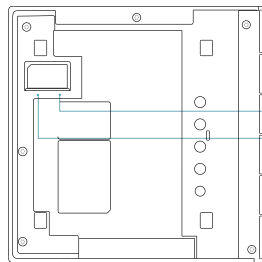
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8

### 1. Screen<sup>o</sup>

The screen displays real-time energy, charging status, error messages, and other relevant system information to help users monitor the charging process.

**o** Only for NexBlue Edge Max & NexBlue Delta Max

### 2. RFID Reader

Access to the charger and identify users effortlessly with the built-in RFID reader. Control the charging process using the RFID card provided in the package or any other compliant RFID card of your choice. For additional details, refer to the myNexBlue App.

### 3. LED indicator

Reflect the status of the charger. The significance of each color is available for reference on the "Status Light Indicator" page.

### 4. Type 2 socket

The Type 2 socket is universally compatible and can charge any type of electric vehicle using the suitable charging cable. Moreover, you have the option to permanently lock the charging cable for added convenience.

### 5. NFC Tag

Quickly pair the charger with your mobile device using the built-in NFC tag. Simply tap your phone on the marked area to initiate device configuration or connect with the charger. For supported models and App requirements, refer to the myNexBlue App.

### 6. Button

The button is designed for essential physical interactions. It can be used to wake up the screen for quick status viewing. Additionally, when used in combination with the NexBlue App, the button enables a manual RCD test.

### 7. Ethernet terminal

The Ethernet terminal enables stable network communication and offers more connectivity options.

### 8. Multi-function terminal

The multi-function terminal supports load balancing via wired CT input, load shedding control, and RS-485 communication for advanced energy management.

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## Safety instructions

**Notice!** Please read the safety instructions carefully before installing and operating the product. Pay special attention to the instructions marked with stars.

### Installation

- \*1. Ensure that this product is properly connected to an upstream circuit breaker<sup>o</sup> and an RCD suitable for the electrical connection and meeting the requirements of the applicable regulations (30mA type A RCD recommended). Please note that regulations may vary by region or country.
- \*2. Installation of this product is restricted to certified electricians. Ensure compliance with national and regional regulations during the installation process.
3. Ensure the AC grid connection and load planning for the charger align with current national and regional laws, regulations, and standards. Review and obtain approval from the relevant authorities for compliance.
4. Before and during installation, make sure to switch off the power and electricity. Activate the power only after the entire installation has been completed by a qualified electrician.
5. Ensure products are stored away from inflammables, explosives, or flowing water. Avoid exposure to direct sunlight and extreme weather conditions, such as blizzards and thunderstorms.
6. Maintain a relative humidity in the storage and usage space below 95%. Avoid the presence of radioactive or corrosive substances. Maintain a stable temperature within the range specified in the technical specifications. For outdoor facilities, conduct inspections in accordance with local laws and regulations.
7. Ensure this product is safely installed in a fixed location with sufficient wall or structural load-bearing capacity.
8. Avoid installing this product in close proximity to strong electromagnetic fields or radio transmitters.
9. Follow the installation guide for the open and close steps of the installation to avoid damaging the NexBlue charger.
10. Avoid using the charging cable with extension cables or adapters; use only cables specified in IEC 62196. Do not step on or squeeze the cable during installation. To ensure safe and efficient charging, the electrician must verify that the cable and charger are compatible and free from any wear or damaged insulation. Position the cable in a way that prevents unintended movement by humans, animals, or other moving objects.
11. The electrician and purchaser are responsible for connecting and installing the ground protection. It is critical that the installation is correctly grounded and that a suitably grounded receptacle is used in accordance with local laws and regulations.
12. The equipment is intended for non-restricted access.

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### Operation

- \*1. Ensure thorough reading of the safety instructions before using or servicing the charger. Failure to follow and apply all the instructions and procedures outlined in this quick guide will void the warranty and result in NexBlue and its partners waiving all liability and claims for compensation.
2. Please keep the PIN code in a safe place, as you might need to use it in the future.
3. When the power circuit is active, the terminals on the backplate are electrified and should never be touched or contacted, except during the standard slide-in installation of the charger by a qualified electrician.
4. The optional function for ventilation is not supported by the charger (EN IEC 61851-1 6.3.2.2).
5. Do not use any conductors or foreign objects, except cable plugs, to touch the socket.
6. Users should avoid forcefully pulling or poking the cable with sharp objects, and should refrain from touching the cable plug with wet hands.
7. Never use extension cords, and promptly replace any damaged cables or plugs to prevent potential safety hazards.
8. Do not allow individuals (including children) with reduced physical, sensory, or mental capabilities, or those lacking experience and knowledge, to use electrical devices unsupervised.

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### Maintenance

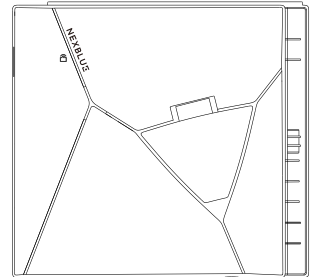
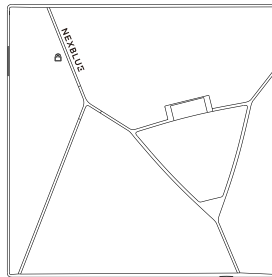
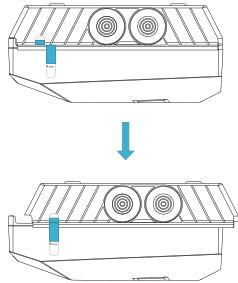
- \*1. Ensure that repairs are performed by workshops approved by the manufacturer, and maintenance of the charger must adhere to national and regional laws, regulations, and standards.
2. Maintenance for the charger should only be performed by authorized electricians. Ensure that the power is disconnected before disassembly and follow the reverse operations as per the instruction manual.
3. Transport chargers in their packaging. In the event of a fall, conduct a visual inspection to avoid damage. Do not use damaged products.
4. Contact NexBlue customer support to dispose the charger.

## Installation guide

**Notice!** The installation must be carried out only by a qualified electrician. When using and installing this product, please make sure to have the instruction manual on hand.

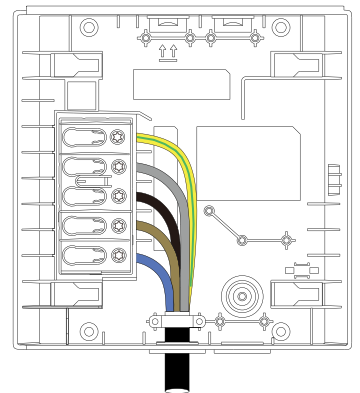
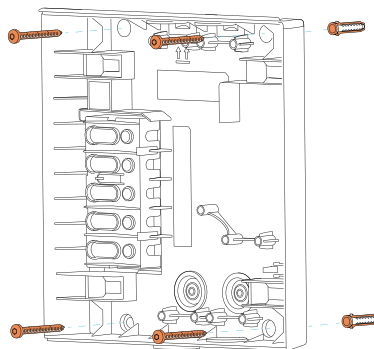
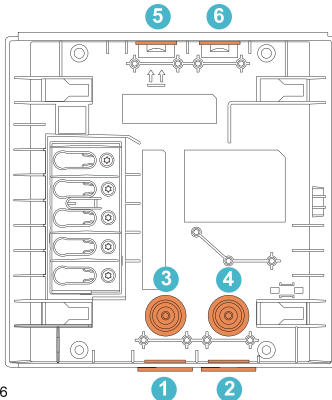
### 1. Opening

- Installation and operation of the product require a mobile device with internet and Bluetooth connection.
- Detach the charger by pushing the NexCore leftward, guided by the blue reminder stickers.



### 2. Preparing and Mounting

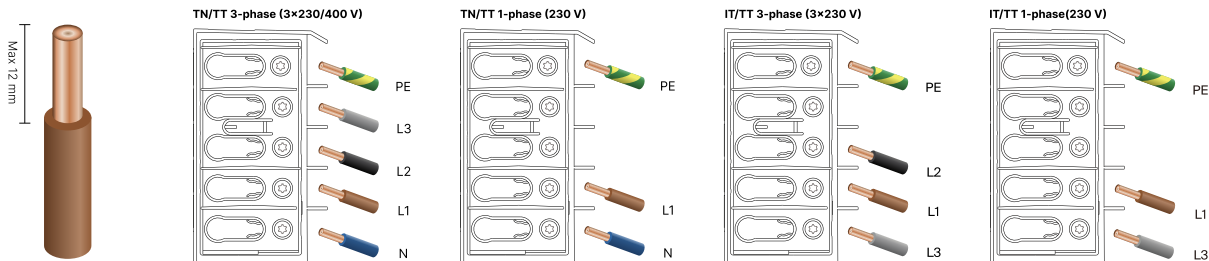
- Choose one of the six cable entries as stated above and cut the sealing plug to fit the cable (cable entry 1 recommended).
- Determine the installation height (recommend 120-170 cm).
- Fix the backplate to a stable wall or surface with the provided 4 backplate screws and wall anchors.
- Insert the cable through the cut sealing plug and secure it to the backplate using the provided cable clamp.



### 3. Wiring

- Insert the cable and tighten the screws (8 Nm).
- All backplates must be connected with the same phase sequence with that in the distribution box (L1-L1, L2-L2, L3-L3), otherwise it may cause load balancing failures.

- The cable colors may vary in accordance with national standards. The illustrations provided in this manual adhere to the IEC 60446 standard.
- This illustration is for general guidance only. Please refer to local regulations and standards for specific installation requirements.
- 2.5 to 16 mm<sup>2</sup> (single conductors) / 2.5 to 10 mm<sup>2</sup> (parallel conductors), if permitted by local regulations.
- Use ferrules on the wires if the cable has flexible conductors.



### 4. Connecting the communication interfaces (Optional)

#### Ethernet Terminal

Provides an additional connectivity option for stable and reliable network communication.

#### Multi-Function Terminal

Designed for market-specific features, such as:

- DLM via wired CT clamps (e.g., UK).
- Load Shedding functions in the DACH region.

#### Special Notes on Connectivity

NexBlue EV chargers are equipped with Wi-Fi, built-in 4G eSIM, and Ethernet connectivity options.

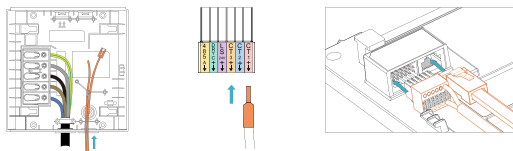
- For stable and reliable network communication, it is always recommended to use Wi-Fi or Ethernet whenever possible.
- If neither Wi-Fi nor Ethernet is available, the built-in 4G eSIM will be automatically activated to improve connectivity.

#### Special Notes on Dynamic Load Management (DLM)

##### Dynamic Load Management (DLM) Options by Market

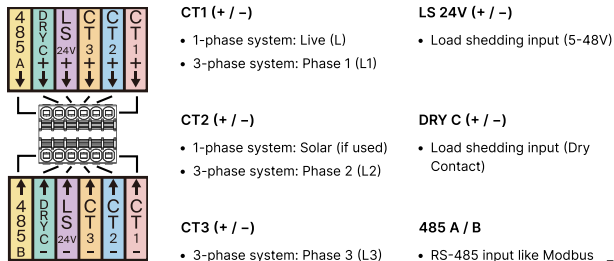
DLM Method	Availability	Typical Market Examples	Notes
NexBlue Zen (Current Sensor)	All markets	Global	General-purpose, suitable for all scenarios
NexBlue Zen (Smart Meter)	Selected markets	Nordics, Benelux	Compatible with P1 / HAN / Kamstrup smart meters
Wired CT Clamps	Specific markets only	UK	Refer to the CT clamp connection instructions in the box

- Insert the LAN/multi-function cables through a separate bottom sealing plug.
- Correctly connect the LAN/multi-function plug per the right instruction.
- Firmly push the plugs into the respective terminal.
- Note: If wired CT clamps are to be installed, please follow the detailed instructions provided in the wired CT package. (available in selected markets, e.g., UK).



- The multi-function plug is a separate accessory, included as standard only in select territories.
- When connecting the Multi-function plug, ferrules must be used. Maximum wire range: 0.2 to 0.5 mm<sup>2</sup>.

**Notice!** Please connect the multi-function plug as instructed below — incorrect wiring may cause damage to the charger.



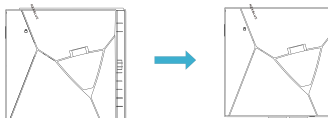
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## 5. Fixing

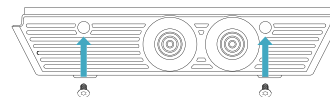
- Make sure the wires are properly connected before turning on the power.



- Push the NexCore to the right (opposite direction shown in step 1). Ensure the NexCore and backplate are tightly closed all around without any gaps.



- Tighten two anti-theft screws at the bottom to secure the whole charger. You may remove the reminder stickers after finishing the installation.



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## 6. Commission & manage

- Download the NexBlue Partner App and follow the instructions to add the product to a new location or an existing location.

- Transfer location ownership and instruct the owner to download the myNexBlue App to accept it.

- Use NexBlue Partner Portal to manage chargers, diagnose issues, optimize configurations, monitor charging consumption, and collaborate with partners on location management.

NexBlue Partner for Installers



iOS App Store

NexBlue Partner for Installers



Google Play

myNexBlue for Users



iOS App Store

myNexBlue for Users



Google Play

NexBlue Partner Portal



<https://partner.nexblue.com>

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## Other Materials

All guides for Users & Partners can be seen

<https://nexblue.com/pages/product-tutorial>

<https://nexblue.com/apps/hc>

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## Warranty

We provide a 5-year limited warranty applicable to correctly installed NexBlue EV chargers. For more information, please see our website's warranty section.





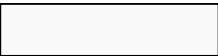



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## Declaration of conformity



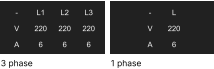
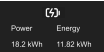




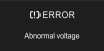
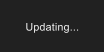


Hereby, NexBlue AB declares that NexBlue Point 2 (UK) and NexBlue Delta Max (UK) defined in this manual are in compliance with the Radio Equipment Regulations 2017. NexBlue Delta Max (UK) also complies with the MID Directive 2014/32/EU. The full text of the UKCA Declaration of Conformity can be found at the following web address:

<https://nexblue.com/pages/doc-declaration-of-conformity>

## Status light indicator

Light	Status
 Breathing orange	Not configured by electrician
 Constant orange	Disabled
 Breathing blue	Charging
 Constant blue	Ready to charge
 Breathing white	Standby, offline
 Constant white	Standby, online
 Breathing green	OTA update
 Flashing red	Critical error. If the issue persists, contact NexBlue customer support.
 Constant red	General error. Check the NexBlue App for further information.

## Display<sup>o</sup>

Status	Display	Screen
Power on	1. Brand name and slogan	
	2. Firmware version	
	3. Voltage and current	
Charging start	1. Power and energy for this charging session	
	2. Voltage and current	
Charging complete	Charging complete	
Plug in the charging cable	Cable connected	
Unplug the charging cable	Cable disconnected	
Critical error	Critical error message	
Firmware update	"Updating"	
MID	1. MID version and total energy	
	2. History charging session	

## Technical specifications

### General

Model No.	<ul style="list-style-type: none"> <li>• Edge 2: NB1620B</li> <li>• Delta: NB1620D</li> <li>• Edge Max: NB1620C</li> <li>• Delta Max: NB1620E</li> </ul>
Dimensions (mm)	H: 235 × W: 230 × D: 107
Wall Mounting (mm)	H: 206 × W: 130
Weight	2.3 kg
Operating Temperature	-30 °C to +50 °C
Storage Temperature	-40 °C to +70 °C
Usage Humidity	5% to 95%
Usage Altitude	< 2000m
External Package	Carton
Warranty	5 years

### User Interface

Enclosure	Plastics
LED Indicator	Red / Green / Blue / White / Orange
RFID/NFC Reader	ISO / IEC 14443 Type A & MIFARE Classic®
Start Mode	myNexBlue APP / RFID / NFC / Plug & Play / AutoCharge / NexBlue User Portal

### Charging

Charging Mode	Mode 3
Charging Power	1.4 to 22 kW
Charge Connector	Type 2 Socket
Rated Current	6 A 1 phase to 32 A 3 phase
Maximum Output Current	32 A
Voltage	3 × 400V AC / 230V AC (±10%)
Installation Network	TN, TT, and IT
Mains Frequency	50 Hz

### Regulations

LVD	2014/35/EU
EMC	2014/30/EU
RED	2014/53/EU
RoHS	2011/65/EU
REACH	Regulation (EC) No 1907/2006
MID <sup>o</sup>	2014/32/EU

### Connectivity

Wi-Fi	19.9 dBm, 97.7 mW at 2.4 GHz 802.11b/g/n
Ethernet	RJ45, 10M / 100M
Bluetooth	10.0 dBm, 10.0 mW at 2.4 GHz BLE 4.2
Built-in eSim	26.0 dBm, 398.1 mW at 4G LTE Cat 1
Nexus RF	13.5 dBm, 22.4 mW at 868MHz
ISO 15118	Ready for V2G / PnC
OCPP	Local OCPP 1.6-J & 2.0.1
Load shedding	Max 2 control levels
Current sensor	1 or 3 x CT clamps
RS-485	TIA/EIA-485A

### Protection

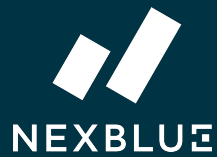
Built-in Energy Meter	<ul style="list-style-type: none"> <li>• Edge 2 / Delta: ±1%</li> <li>• Edge Max / Delta Max: MID Class B ±1% (EN 50470-3: 2022)</li> </ul>
Built-in Residual Current Protection <sup>1,3</sup>	RDC-DD (6 mA DC) according to IEC 62955 + 30 mA AC according to IEC 60947-2, annex M <sup>2</sup>
Upstream Circuit Breaker	<ul style="list-style-type: none"> <li>• Edge 2 / Edge Max: MAX 40A</li> <li>• Delta / Delta Max: MAX 63A</li> </ul> Instantaneous trip, maximum 75 000 A <sup>2</sup> s
Ingress Protection	IP54 (indoor and outdoor use)
Impact Protection	IK10
Insulation Class	I
Overvoltage Category	III
EMC Level	CLASS B
Other Protections	Overload protection Over/under voltage protection Temperature protection Relay welding protection Ground fault protection PE presence detection CP diode presence detection Humidity monitoring

1. Whether an external RCD is required depends on the actual installation conditions on site and the approval of the authorized installer during the installation process. To get more RCD information, please find: <https://nexblue.com/pages/rcd-technical-guide>

2. Make sure the upstream circuit breaker complies with local electrical regulations.

3. Before each charge or at least 24 hours, the built-in Residual Current Device will automatically perform a selfcheck. The button at the right bottom of the charger is available for manual selfcheck.

[www.nexblue.com](http://www.nexblue.com)



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