

# Datasheet

## Wallbox 7.4kW 32A

### Tree

Part No: 100535



### About the product

The LOXONE **Wallbox** enables dynamic charging from **1.38kW to 7.4kW** for electric vehicles. The **Tree interface** allows all the freedom for efficient **energy management**.

#### Features:

- Charge for free: use PV surplus efficiently
- Electricity exchange included: charge cheaply, even without a PV system. Ideal for variable electricity tariffs
- Easy operation with the Touch Pure Flex or the LOXONE app
- Fleet-compatible: Protection of the line and the building thanks to optimal power distribution
- User identification and billing via NFC
- Optional expansion with touch devices, meters
- Up to 5 customizable charging modes
- Easy integration via Tree
- OCPP capable
- MID compliance achievable in combination with the LOXONE [Energy Meter Tree](#)

### Supply and Power

|                   |                                                                                                                                |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Rated voltage     | AC Input (mains): 1x 230V, 50-60Hz<br>24V DC Input: 18-24V                                                                     |
| Rated current     | AC Input (mains): 1x 32A<br>24V DC Input: max. 120mA                                                                           |
| Power consumption | AC Input (mains): -<br>24V DC Input: Standby: 0.3W, charging: 1.8W<br>A 30mA type A RCD must be connected before each wallbox! |

## Electrical Specifications

|                            |                                                                                     |
|----------------------------|-------------------------------------------------------------------------------------|
| Max. charging power        | 7.4kW (1 phase 32A)<br>configurable from 1.38kW to 7.4kW                            |
| Charging Mode              | Charging mode 3 (IEC 61851-1)                                                       |
| Residual current detection | Internal, RDC-MD, DC 6mA<br>(IEC 62955)                                             |
| Charging cable with plug   | Type 2 plug (IEC 62196)<br>5 meter cable, 3x6mm <sup>2</sup> + 1x0.5mm <sup>2</sup> |

## Interfaces

|                                         |                                                                                                                                 |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| LOXONE Tree                             | Connection with Miniserver / Tree Extension                                                                                     |
| Modbus RTU for connecting Energy meters | max. 1 device<br>max. 3m wire length<br>adjustable baud rate & parity<br>data types: 16 & 32 bit<br>min. polling cycle: 0.1s/1s |
| OCPP                                    | 1.6 & 2.0.1, NFC Code Touch required                                                                                            |

## Ambient Conditions

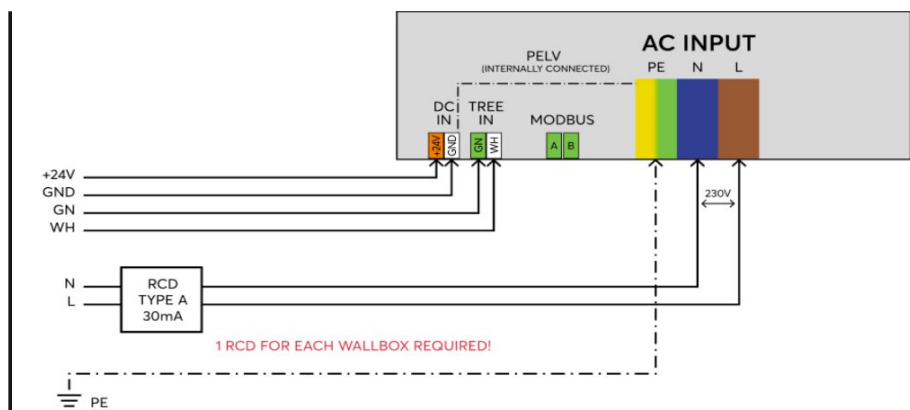
|                             |                                                              |
|-----------------------------|--------------------------------------------------------------|
| Temperature                 | -20 ... 50 °C / -4 ... 122 °F                                |
| Humidity                    | max. 95 % RH (non-condensing)                                |
| Ingress protection          | IP44 (IEC 60529)                                             |
| Impact protection           | IK08 (IEC 62262)                                             |
| Appliance class             | Class I                                                      |
| Installation                | Stationary, surface mount, vertical on wall or charging post |
| Recommended mounting height | Cable outlet: 132cm / 52"<br>Top edge: 165cm / 65"           |
| Altitude                    | max. 2000 m                                                  |

## Connection Terminals

| Terminal type          | AC Input                                                                               | Charging Output                                  | DC Input                                              | LOXONE Tree                                          | Modbus                                                |
|------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------|
|                        | DG2216V                                                                                | DG2206V                                          | PT 1.5                                                | DG220B                                               | SPTAF 1                                               |
| Wire cross-section     | 0.5 ...<br>16mm <sup>2</sup><br>/ AWG 20<br>... 5                                      | 0.5 ...<br>6mm <sup>2</sup><br>/ AWG 20<br>... 8 | 0.75 ... 2.5<br>mm <sup>2</sup> /<br>AWG 18 ...<br>13 | 0.28 ...<br>0.8mm <sup>2</sup> /<br>AWG 23 ...<br>18 | 0.25 ...<br>0.75mm <sup>2</sup> /<br>AWG 24 ...<br>16 |
| Stripping length       | 12 mm /<br>0.47"                                                                       | 12mm /<br>0.47"                                  | 5 mm /<br>0.2"                                        | 5 ... 6 mm /<br>0.2 ... 0.24"                        | 8 mm /<br>0.31"                                       |
| Temperature resistance | -40 ... 105<br>°C / -40 ...<br>221°F                                                   | -40 ... 105<br>°C / -40 ...<br>221°F             | -40 ... 105<br>°C / -40 ...<br>221°F                  | -40 ... 105<br>°C / -40 ...<br>221°F                 | -60 ... 100<br>°C / -76 ...<br>212 °F                 |
| Tightening torque      | -                                                                                      | -                                                | 0.35 ... 0.4<br>Nm / 0.26<br>... 0.3 lbf·ft           | -                                                    | -                                                     |
| Terminal compartment   | DIN Rail with 158mm / 6.2" width, room for devices with up to 9 division/breaker units |                                                  |                                                       |                                                      |                                                       |

## Connection Diagram

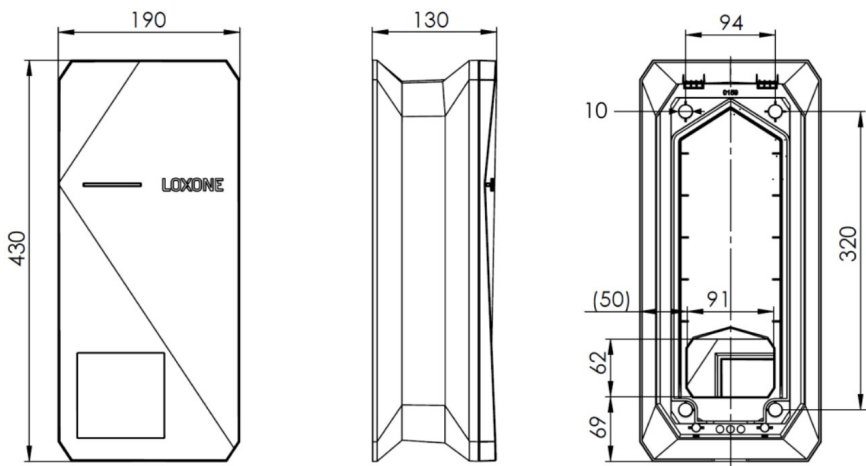
Connection Diagram



## Product Characteristics

|         |                                            |
|---------|--------------------------------------------|
| Colours | Housing: RAL 9005<br>Decor cover: RAL 9003 |
| Finish  | Matte                                      |

## Weight & Dimensions

|                            |                                                                                    |
|----------------------------|------------------------------------------------------------------------------------|
| Net weight                 | 3.5 kg                                                                             |
| Total weight               | 4.8 kg                                                                             |
| Product dimensions         | 430x190x130mm / 16.93x7.48x5.12" (HxWxD)                                           |
| Product dimensions drawing |  |
| Pack size                  | 575x330x155mm / 22.64x12.99x6.1" (HxWxD)                                           |

## Certifications & Standards

|                     |                                                                                                                                                                         |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Certifications      | Compatible with ChargePoint be.ENERGISED (OCPP 1.6)                                                                                                                     |
| Degree of pollution | 3                                                                                                                                                                       |
| Standards           | CE (LVD 2014/35/EU, EMCD 2014/0/EU)<br>IEC 61851-1<br>IEC 61851-22                                                                                                      |
| Certifications      |   |

Installation must be carried out by a qualified electrician in accordance with the relevant regulations.

### Published by

Loxone Electronics GmbH  
Smart Home 1  
4154 Kollerschlag  
Austria  
Tel: +43 7287 7070-0  
loxone.com

Loxone UK Ltd.  
The Forum  
Station Road  
Theale, RG7 4RA  
United Kingdom

# Datenblatt

## Wallbox 7,4kW 32A

### Tree

Part No: 100535



#### Über das Produkt

Die LOXONE **Wallbox** ermöglicht dynamisches Laden von **1,38kW bis 7,4kW** für Elektrofahrzeuge. Die **Tree Schnittstelle** ermöglicht alle Freiheiten für ein effizientes **Energiemanagement**.

#### Features:

- Kostenlos laden: PV-Überschuss effizient nutzen
- Strombörse inklusive: Günstig laden, auch ohne PV-Anlage. Ideal für variable Stromtarife
- Einfache Bedienung mit dem Touch Pure Flex oder der LOXONE App
- Flottentauglich: Absicherung der Leitung und des Gebäudes dank optimaler Leistungsverteilung
- Nutzeridentifikation und Abrechnung per NFC
- Optionale Erweiterung durch Touch Geräte, Zähler
- Bis zu 5 anpassbare Lademodi
- Einfache Integration über Tree
- OCPP fähig
- MID-Konformität erreichbar in Kombination mit LOXONE [Energiezähler Tree](#)

#### Versorgung und Leistung

|                   |                                                                                                                                                                      |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nennspannung      | AC Eingang (Netzspannung): 1x 230V, 50-60Hz<br>24V DC Eingang: 18-24V                                                                                                |
| Nennstrom         | AC Eingang (Netzspannung): 1x 32A<br>24V DC Eingang: max. 120mA                                                                                                      |
| Leistungsaufnahme | AC Eingang (Netzspannung): -<br>24V DC Input: Standby: 0.3W, Laden: 1.8W<br>Jeder Wallbox muss ein 30mA Typ A Fehlerstrom-Schutzschalter (RCD) vorgeschaltet werden. |

## Elektrische Spezifikationen

|                       |                                                                                       |
|-----------------------|---------------------------------------------------------------------------------------|
| Max. Ladeleistung     | 7,4kW (1phasig 32A)<br>einstellbar von 1,38kW bis 7,4kW                               |
| Ladebetriebsart       | Ladebetriebsart 3 (IEC 61851-1)                                                       |
| Fehlerstromerkennung  | Intern, RDC-MD, DC 6mA<br>(IEC 62955)                                                 |
| Ladekabel mit Stecker | Typ 2 Stecker (IEC 62196)<br>5 Meter Kabel, 3x6mm <sup>2</sup> + 1x0,5mm <sup>2</sup> |

## Schnittstellen

|                                             |                                                                                                                                    |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| LOXONE Tree                                 | Verbindung mit Miniserver / Tree Extension                                                                                         |
| Modbus RTU zum Anschluss von Energiezählern | max. 1 Gerät<br>max. 3m Leitungslänge<br>einstellbare Baudrate & Parität<br>Datentypen: 16 & 32 bit<br>min. Abfragezyklus: 0,1s/1s |
| OCPP                                        | 1.6 & 2.0.1, NFC Code Touch erforderlich                                                                                           |

## Umgebungsbedingungen

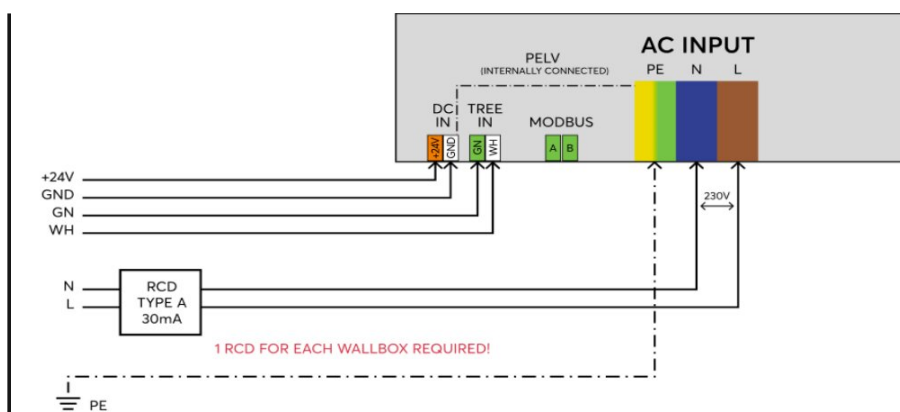
|                        |                                                          |
|------------------------|----------------------------------------------------------|
| Temperatur             | -20 ... 50 °C / -4 ... 122 °F                            |
| Luftfeuchtigkeit       | max. 95 % r. F. (nicht kondensierend)                    |
| Schutzart              | IP44 (IEC 60529)                                         |
| Stoßfestigkeitsgrad    | IK08 (IEC 62262)                                         |
| Schutzklasse           | Klasse I                                                 |
| Installation           | Ortsfest, Aufbaumontage, vertikal an Wand oder Ladesäule |
| Empfohlene Montagehöhe | Kabelausschuss: 132cm / 52"<br>Oberkante: 165cm / 65"    |
| Betriebshöhe           | max. 2000 m                                              |

## Anschlussklemmen

| Klemmentyp              | AC Eingang                                                                          | Ladeausgang                                      | DC Eingang                                            | LOXONE Tree                                          | Modbus                                                |
|-------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------|
|                         | DG2216V                                                                             | DG2206V                                          | PT 1.5                                                | DG220B                                               | SPTAF 1                                               |
| Leiterquerschnitt       | 0.5 ...<br>16mm <sup>2</sup><br>/ AWG 20<br>... 5                                   | 0.5 ...<br>6mm <sup>2</sup><br>/ AWG 20<br>... 8 | 0.75 ... 2.5<br>mm <sup>2</sup> /<br>AWG 18 ...<br>13 | 0.28 ...<br>0.8mm <sup>2</sup> /<br>AWG 23 ...<br>18 | 0.25 ...<br>0.75mm <sup>2</sup> /<br>AWG 24 ...<br>16 |
| Abisolierlänge          | 12 mm /<br>0.47"                                                                    | 12mm /<br>0.47"                                  | 5 mm /<br>0.2"                                        | 5 ... 6 mm /<br>0.2 ... 0.24"                        | 8 mm /<br>0.31"                                       |
| Temperaturbeständigkeit | -40 ... 105<br>°C / -40 ...<br>221 °F                                               | -40 ... 105<br>°C / -40 ...<br>221 °F            | -40 ... 105<br>°C / -40 ...<br>221 °F                 | -40 ... 105<br>°C / -40 ...<br>221 °F                | -60 ... 100<br>°C / -76 ...<br>212 °F                 |
| Anzugsdrehmoment        | -                                                                                   | -                                                | 0.35 ... 0.4<br>Nm / 0.26<br>... 0.3 lbf·ft           | -                                                    | -                                                     |
| Anschlussraum           | Hutschiene mit 158mm / 6,2" Breite, Platz für Geräte mit bis zu 9 Teilungseinheiten |                                                  |                                                       |                                                      |                                                       |

## Anschlussplan

### Anschlussplan



## Produkteigenschaften

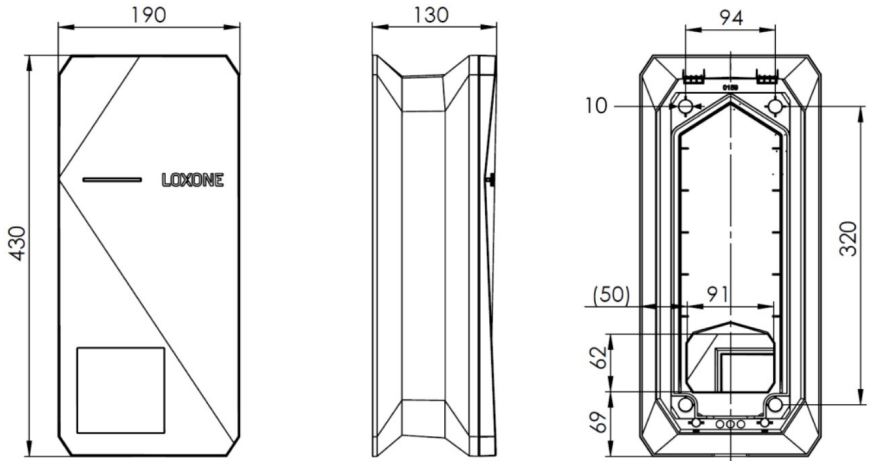
### Farbe

Gehäuse: RAL 9005  
Dekorabdeckung: RAL 9003

### Glanzgrad

Matt

## Gewicht & Abmessungen

|                     |                                                                                    |
|---------------------|------------------------------------------------------------------------------------|
| Nettogewicht        | 3,5 kg                                                                             |
| Bruttogewicht       | 4,8 kg                                                                             |
| Produktmaße         | 430x190x130mm / 16,93x7,48x5,12" (HxBxT)                                           |
| Produktmaßzeichnung |  |
| Packmaß             | 575x330x155mm / 22,64x12,99x6,1" (HxBxT)                                           |

## Zertifizierungen & Standards

|                    |                                                                                                                                                                         |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Zertifizierungen   | Kompatibel mit ChargePoint be.ENERGISED (OCPP 1.6)                                                                                                                      |
| Verschmutzungsgrad | 3                                                                                                                                                                       |
| Normen             | CE (LVD 2014/35/EU, EMCD 2014/0/EU)<br>IEC 61851-1<br>IEC 61851-22                                                                                                      |
| Zertifizierungen   |   |

Die Installation muss von einer qualifizierten Elektrofachkraft gemäß den einschlägigen Vorschriften durchgeführt werden.

### Veröffentlicht von

Loxone Electronics GmbH  
Smart Home 1  
4154 Kollerschlag  
Austria  
Tel: +43 7287 7070-0  
loxone.com

Loxone UK Ltd.  
The Forum  
Station Road  
Theale, RG7 4RA  
United Kingdom