

Instructions for Use

Battery charger



for Viega 18 V lithium ion rechargeable battery (model 2488.1 or
model 2488.63)

Model
2488.65

viega

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1 About these instructions for use

Trade mark rights exist for this document; for further information, go to viega.com/legal.

1.1 Target groups

The information in these operating instructions is directed at the following groups of people:

- Heating and plumbing experts and trained personnel

This product must not be used by persons who do not have the aforementioned training or qualifications.

1.2 Labelling of advisory text and safety symbols

Warning and advisory texts are set aside from the remainder of the text and are labelled with the relevant pictographs.

	DANGER! This symbol warns of possible life-threatening injury.
	WARNING! This symbol warns of possible serious injury.
	CAUTION! This symbol warns of possible injury.
	NOTICE! This symbol warns of possible damage to property.
	This symbol gives additional information and hints.

Warning signs and symbols

Pay attention to the warning signs and symbols on the charger and on the accessories:



- 1 General hazard symbol
- 2 Hazard of electric shock
- 3 Observe the operating instructions
- 4 Wear eye protection
- 5 Protect battery from fire
- 6 Protect battery from moisture
- 7 Do not expose device to water or rain
- 8 Maximum operating temperature: 60°C
- 9 The rechargeable battery is compatible with the RBC-XX charger series
- 10 The charger is compatible with the RB-18XX rechargeable battery series
- 11 Use electrical tools and accessories only in areas protected from moisture
- 12 Protection class II (double insulated casing)
- 13 Recyclable rechargeable lithium ion batteries
- 14 The marked product must not be disposed of as household waste
- 15 The product can be used for ten years in accordance with its intended purpose (China RoHS)

- 16 Rechargeable battery recycling (USA and Canada)
- 17 CE marking: Product safety in Europe
- 18 EAC mark: registers products in the Eurasian Customs Union
- 19 PSE mark: Japanese safety standard for electrical installations
- 20 RCM mark: electrical safety/electromagnetic compatibility (Australia)
- 21 INMETRO mark: Brazilian certification/ETL marking: proven product safety
- 22 KC mark: South Korean certification
- 23 CQC mark: Chinese certification
- 24 GS mark: proven safety

1.3 About this translated version

This instruction for use contains important information about the choice of product or system, assembly and commissioning as well as intended use and, if required, maintenance measures. The information about the products, their properties and application technology are based on the current standards in Europe (e.g. EN) and/or in Germany (e.g. DIN/DVGW).

Some passages in the text may refer to technical codes in Europe/Germany. These should serve as recommendations in the absence of corresponding national regulations. The relevant national laws, standards, regulations, directives and other technical provisions take priority over the German/European directives specified in this manual: The information herein is not binding for other countries and regions; as said above, they should be understood as a recommendation.

2 Product information

2.1 Standards and regulations

The following standards and regulations apply to Germany / Europe and are provided as a support feature.

Regulations from section: Disposal

Scope / Notice	Regulations applicable in Germany
Disposal of old electrical and electronic appliances	2012/19/EU

2.2 Safety advice

Basic safety rules for the chargers and batteries

Use the charger to charge only those batteries listed in these instructions as compatible.

Other battery types may explode and cause injury and damage to objects.

Do not use conductive objects to test the charger.

Short-circuiting battery connections may result in sparks, burn injuries or electric shock.

Do not insert batteries in a charger which has been dropped or damaged in any other way.

A damaged charger increases the risk of electric shock.

Ensure the appropriate power supply. Do not attempt to use a step-up transformer, generator or DC socket.

This may damage the charger. Risk of electric shock, fire and burn injuries.

Make sure that the charger is not covered during operation.

Sufficient ventilation is a precondition for proper functioning of the charger. Risk of fire when the vents are covered. At least 10 cm of free space are required at all sides of the chargers.

Do not charge the battery in damp, wet, or potentially explosive environments.

Protect the charger from rain, snow and dirt. Increased risk of electric shock if the charger is dirty and/or wet.

Do not open the casing of the charger.

Repairs must only be done at authorized service points.

Never take the batteries apart.

There are no parts inside the battery that can be maintained by the user. Taking batteries apart may cause electric shock or injuries.

Do not load batteries with damaged casing into the charger.

Damaged batteries increase the risk of electric shock.

Avoid all contact with fluids leaking from a damaged battery.

These fluids may cause chemical burns or skin irritation. After accidental contact with such fluids, rinse the affected skin with plenty of water. If battery fluid gets into your eyes, seek medical advice.

Do not immerse the tool, replaceable battery or the charger in liquids and ensure that no liquids penetrate the devices or batteries.

Corrosive or conductive fluids, such as salt water, certain chemicals and bleaching agents or products containing bleaching agents can cause a short circuit.

Non-rechargeable batteries must not be charged using the charger.

When not in use, keep the battery away from paperclips, coins, keys, nails, screws or other small metal objects which might make a connection from one contact to the other.

Short-circuits between the battery contacts may result in burn injuries or fire.

Do not expose a battery to fire or excessive temperature.

Exposure to fire or temperature above 130 °C may cause an explosion.



- This product is not intended for use by persons (including children) with restricted physical, sensory or mental aptitude or lack of experience and/or knowledge.
- Make sure that children do not play with this product.

2.3 Intended use

2.3.1 Areas of use

The battery charger is exclusively for use with compatible 18-V lithium ion rechargeable batteries (see type list). The battery charger does not require any adjustments.

The battery charger can be operated at both 100–240 V AC (household electrical connection) and 12 V DC (e.g. in a car).

2.4 Product description

2.4.1 Overview

Battery charger 18 V

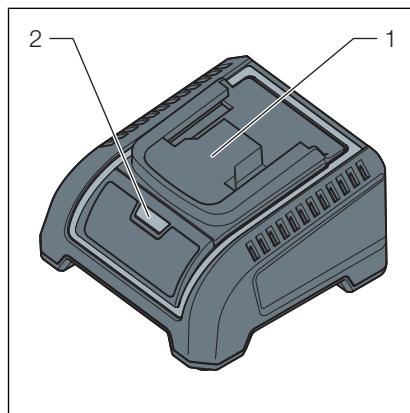


Fig. 1: Control elements on the battery charger

- 1 Rechargeable battery compartment
- 2 Status LED

Lithium ion rechargeable battery

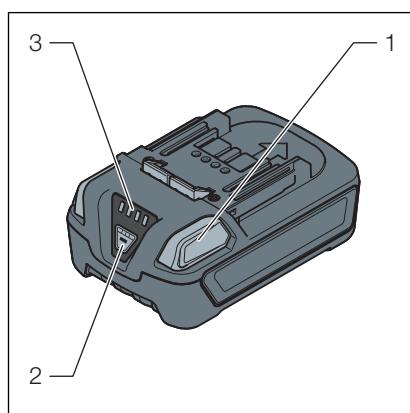


Fig. 2: Control elements on the lithium ion rechargeable battery

- 1 Battery release
- 2 Button for checking the charge level
- 3 Charge level display

2.4.2 Technical data

Lithium ion rechargeable battery

Model	2488.63	
Rechargeable battery technology	Lithium ions	
Capacity	18 V / 2.5 Ah	18 V / 5 Ah
Weight	0.49 kg	0.72 kg

Permitted charging temperature	5 °C up to 45 °C
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Permitted storage temperature	0 °C up to 45 °C
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Battery charger

Model	2488.65	
Input	AC	DC
	100–210 V	11.8–15.8 V
	50–60 Hz	—
	2 A max.	12.5 A
Output	18 V / 4.0 A	18 V / 2.0 A
Charging time: rechargeable 2.5-Ah battery	approx. 27 min.	approx. 59 min.
Charging time: rechargeable 5-Ah battery	approx. 63 min.	approx. 138 min.
Cooling	passive convection cooling (without fan)	
Operating temperature	0–45 °C	
Weight	0.70 kg	
Dimensions (L x W x H)	153 x 142 x 94 mm	
Connection cable	AC connection cable with plug type C Connection cable 12 V DC (for on-board plug sockets) with fuse 12.5 A, 250 V, 3AG (6.3 mm x 31.8 mm)	

3 Handling

3.1 Transport and storage

Transport

The battery has been tested pursuant to UN document ST/SG/AC. 10/11/Rev.3/section III, sub-section 38.3. The battery is equipped with a device for efficient protection from internal overpressure and short-circuit as well as devices for preventing forced rupture and dangerous reverse current.

The lithium equivalent volume comprised in the battery is below the applicable limit values. Accordingly, the battery neither on its own nor when inserted in the device is subject to national or international dangerous goods regulations.

The dangerous goods regulations can be relevant when transporting multiple rechargeable batteries and may make special conditions necessary (e.g. with regard to packaging).

Storage

Protect the battery and charger from the following external influences:

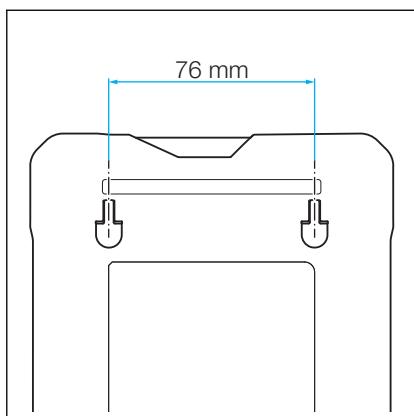
- Impacts
- Moisture and humidity
- Dust and dirt
- Frost and extreme heat
- Chemical solutions and vapours

Store the battery outside of the press machine or the charger.

Extended storage with discharged batteries or fully charged at temperatures of > 60°C may permanently reduce the battery capacity.

3.2 Mounting the charger on the wall

The charger can also be mounted on the wall.



- ▶ Make the bore holes spaced at 76 mm.
- ▶ Insert the screws so that the screw heads protrude by approximately 3 mm.
- ▶ Align the holes on the back of the charger with the screws, and then position the charger and push down.

3.3 Charging the battery



New batteries reach their full output after approx. five charging and discharging processes.

It is not necessary to fully discharge batteries before charging.



The charging time can vary depending on battery temperature, the amount of charge required and battery capacity.



Never use both connection cables for the electrical connection at the same time.

Requirements:

- The charger is correctly connected to the mains power supply.
 - The charger is in standby mode. The yellow LED is flashing.
- The charger has adequate ventilation.

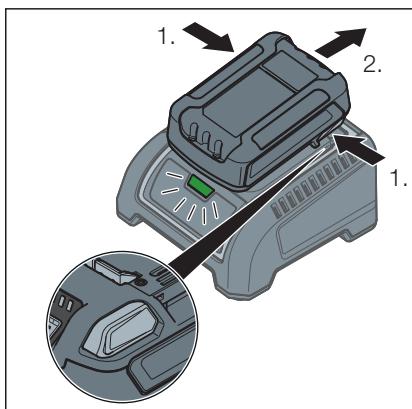
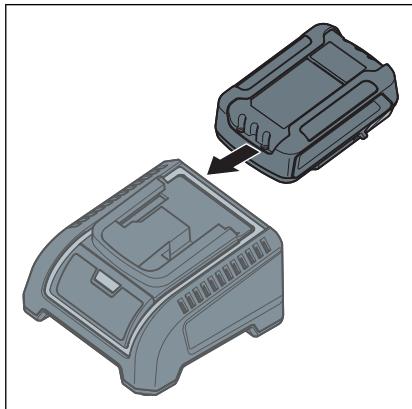
- The charger is located at least 10 cm away from walls and other objects.

- The ambient temperature is not outside the specified limits of 0–45 °C.

► Attach the battery to the charger with dry hands.

□ The charger automatically starts the charging process.

The battery warms up slightly while charging. This is normal and does not indicate a problem.



► As soon as the green LED illuminates continuously, push in the two release buttons on the side of the battery and remove it.

□ The battery is fully charged.

► Pull the mains cable of the charger out of the socket.

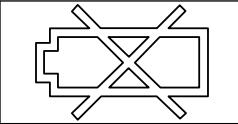
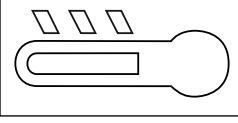


When the battery is fully charged, the charger automatically switches to trickle charge. There is no danger of the battery becoming overcharged.

Status LED

The charger displays various charge states via an LED.

Symbol	Colour	LED illuminates	LED flashes
	yellow	–	The charger is connected to the mains power supply. No battery has been inserted.
	Green	–	Flashes slowly: The battery is being charged (charge status < 85 %). Flashes quickly: The battery is being charged (charge status > 85 %).
	Green	The battery is fully charged.	–

Symbol	Colour	LED illuminates	LED flashes
	Red	–	The battery is incorrectly aligned in the charger. Remove the battery and insert it into the charger again.
			The battery is damaged and has to be replaced.
			The charger is damaged. For contact information see Chapter 4.3 'Service partners' on page 17 .
	Red	The temperature of the charger or the battery is outside the temperature range of 0–45 °C. Allow the device to cool down until the permissible temperature range is reached.	–

If the LED does not illuminate, it may be because:

- **The charger has no power.** Make sure that the charger is correctly connected to the mains socket.
- **The charger is faulty.** For contact information see [Chapter 4.3 'Service partners' on page 17](#).

3.4 Care and maintenance

3.4.1 Cleaning the devices

	CAUTION! Risk of electrocution Disconnect the charger from the mains power supply before cleaning.
	NOTICE! Do not use water or chemicals to clean the charger or the battery.

- Clean the charger or the battery with a soft cloth or a soft, non-metal brush.

3.4.2 Inspection and maintenance



NOTICE!

Risk of device damage due to improper repairs or maintenance

The charger and battery must not be maintained by the user.

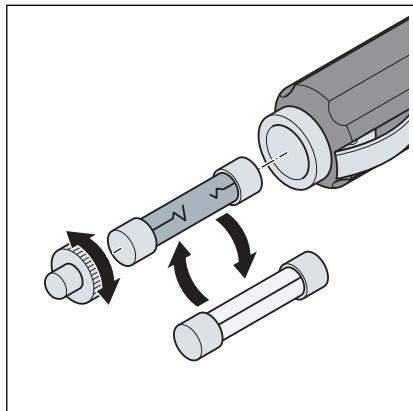
Do not attempt to open the charger or batteries, to charge individual cells, or to clean internal components.

If you have any questions about servicing or repairs, contact the service partners named by Viega; see [↳ Chapter 4.3 'Service partners' on page 17](#).

Replacing the fuse

The fuse in the 12 V DC connection cable can be replaced as follows:

- ▶ Unscrew the casing on the front part by hand.
- ▶ Remove the faulty fuse and insert a new one. For type designation see [↳ Chapter 2.4.2 'Technical data' on page 8](#).
- ▶ Screw the casing back on hand-tight.



3.5 Disposal

Parts of the lithium ion rechargeable batteries contain valuable materials and can be recycled. For disposal, comply with the regulations applicable in your country. For more information, contact your local waste management authority.

For EU countries:

Do not dispose of electrical and electronic devices in household waste. Dispose of the device pursuant to the regulations applicable in your country, see [↳ 'Regulations from section: Disposal' on page 6](#).



Observe the requirements on the transport of road and rail freight and of ocean and air freight if sending defective lithium ion rechargeable batteries.

4 Appendix

4.1 Warranty

The warranty period for Viega system tools such as press tools, press jaws, press rings, Steptec punches, pipe cutters, calibrating tools etc. is governed by national statutory regulations of the country where you have your seat. However, it is at least two years after purchase and transfer of risk.

Please keep the proof of purchase in case of repair during the warranty period. The warranty does not apply in cases of incorrect and non-professional use. If the defect is due to incorrect and non-professional use, or if there is proper wear and tear of wearing parts, warranty claims are excluded.

4.2 EC Declaration of Conformity

	EC Declaration of conformity 1275/2008/EC, 278/2009/EC	Attendorn, 23.01.2019				
<p>Viega Supply Chain GmbH & Co. KG Viega Platz 1 57439 Attendorn, Germany</p> <p>We hereby declare on our sole responsibility that the products listed below comply with the Directives 1275/2008/EC, 278/2009/EC.</p> <p>Applied harmonised standards: UL1310; CSA-C22.2 No.107.2; UL/CSA 62841-1 Annex K, FCC Part 15 Class B, California Energy Commission CEC-400-2011 EN/IEC-60335-1; EN/IEC-60335-2-29; European Commission (EC) Regulation No 1275/2008 and No 278/2009, IEC61000-3-2; IEC61000-3-3; EN55014-1; EN55014-2, EN 50498, IS 616/ IEC 60065</p>						
 p.p. C. Volkmer Head of Product Management	 p.p. U. Grünkemeier Product Management	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Article</th> <th style="width: 50%;">Model - Designation</th> </tr> </thead> <tbody> <tr> <td style="width: 50%;">790936</td> <td style="width: 50%;">228865 Battery charger 230 V / 110 V / 12 V</td> </tr> </tbody> </table>	Article	Model - Designation	790936	228865 Battery charger 230 V / 110 V / 12 V
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<p>Viega Supply Chain GmbH & Co. KG, Viega Platz 1, 57439 Attendorn, Germany, Phone +49 (0) 2722 61-0, Fax +49 (0) 2722 61-1415, viega.com International VAT ID No. DE307732088, based in Attendorn. Local Court Siegen under Commercial Register No. HRA 9165 General Partner: Viega Holding GmbH & Co. KG, based in Attendorn. Local Court Siegen HRA 7404 (general partners thereof: Viega Holding Beteiligungs B.V. [Chairmen of the Managing Board: Walter Viegener, Claus Holst-Gydesen; Directors: Ralf Baginski, Andreas Brockow, Andreas Fiephaus, Dirk Gellisch, Patrick Grundke, Peter Schöler]; Viega Holding Beteiligungs GmbH [Directors: Walter Viegener, Claus Holst-Gydesen]) Bank account: Deutsche Bank AG Siegen, IBAN DE10 4607 0090 0532 3720 00, BIC DEUTDEDK460</p>						

Fig. 3: EC Declaration of Conformity charger

	EC Declaration of conformity 2006/42/EC, 2011/65/EU, 2014/30/EU, 2014/35/EU, 2012/19/EU, 2014/53/EU	Attendorn, 23.01.2019						
Viega Supply Chain GmbH & Co. KG Viega Platz 1 57439 Attendorn, Germany								
We hereby declare on our sole responsibility that the following products comply with the Directives 2006/42/EC, 2011/65/EU, 2014/30/EU, 2014/35/EU, 2012/19/EU, 2014/53/EU.								
Applied harmonised standards: UN - UN/DOT 38.3, UL/CSA 62841-1 Annex K, EN/IEC 62133								
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<small> Viega Supply Chain GmbH & Co. KG, Viega Platz 1, 57439 Attendorn, Germany, Phone +49 (0) 2722 61-0, Fax +49 (0) 2722 61-1415, viega.com International VAT ID No. DE307732088, based in Attendorn, Local Court Siegen under Commercial Register No. HRA 9165 General Partner: Viega Holding GmbH & Co. KG, based in Attendorn, Local Court Siegen HRA 7404 (general partners thereof: Viega Holding Beteiligungs B.V. [Chairmen of the Managing Board: Walter Viegener, Claus Holst-Gydesen, Directors: Ralf Baginski, Andreas Brockow, Andreas Fiehau, Dirk Gellisch, Patrick Grundke, Peter Schöler]; Viega Holding Beteiligungs GmbH [Directors: Walter Viegener, Claus Holst-Gydesen]) Bank account: Deutsche Bank AG Siegen, IBAN DE10 4607 0090 0532 3720 00, BIC DEUTDEDK460 </small>								

Fig. 4: EC Declaration of Conformity rechargeable battery

4.3 Service partners

The Viega local subsidiary or the authorised service partner will answer your questions about the repair and maintenance of your product and about spare parts.

Country code	Company	Address/contact
A	König & Landl GmbH	Gewerbering 2, 2020 Hollabrunn (+43) 01 479 74 84 - 50 / hollabrunn@koenig-landl.at
OFF	Nepean Boltmaster Pty Ltd ABN	42 Borec Road, 2750 Penrith +61 (2) 4722 3034 / warren@nepbolt.com.au
	Allied Power Tools Pty. Ltd.	12/76 Rushdale St, Knoxfield, VIC 3180 +61 (3) 9764 2911/ alliedservice@aanet.com.au
B	OMICRON-Benelux bvba	Grote Steenweg 116, 3454 Rummen-Geetbets +32 (11) 58 43 50 / rudy.massa@omicron-weldingtechnology.com
CN	德房家（中国）管道系统有限公司	无锡市锡山区万全路 30 号平谦国际现代产业园 P 栋 400 0688 668/ Dong.ji@viega.cn
	Viega (China) Plumbing Systems Co., Ltd.	Building P, Pingqian International Modern Industrial Park, No. 30 Wanquan Road, Xishan District, Wuxi, China (214107) 400 0688 668/ Dong.ji@viega.cn
CZ / SK	Mátl & Bula, spol. s r.o.	Stará pošta 750, 664 61 Rajhrad u Brna +420 547 424 424 / info@matl-bula.cz
D	Hans-Joachim Voigt & Sohn	Nordlichtstrasse 48/50, 13405 Berlin +49 (30) 413 4041 / m.sturtz@voigt-und-sohn.de
	Hamburger-Hochdruck-Hydraulik GmbH	Billwerder Billdeich 601c, 21033 Hamburg +49 (40) 7511 900 / Service@HHHydraulik.com
	Hamburger-Hochdruck-Hydraulik GmbH – Süd	Neue Gautinger Str. 21, 82110 Germering, +49 (89) 130 111 03 / Service@HHHydraulik.com
DK	Scherer's Elektro ApS	Resenbrovej 4, 2610 Rodovre +45 (44) 843738 / Steffen@scherers-elektro.dk
E	Tecno Izquierdo S.L.	Avda. del Manzanares 222, 28026 Madrid +34 (914) 759158 / tecno.izquierdo@telefonica.net
F	PLASTIPRO	245 boulevard de l'Europe, 62118 Monchy-le-Preux +33 (361) 47 40 45 / contact@sarl-plastipro.fr
FN	Sähköhuolto Tissari Oy	Poijutie 3, 70460 Kuopio + 358 (17) 26 48 500 / osmo.tissari@sht.fi
GR	Ergon Equipment A.E.T.E.	102 Kleisthenous & Papafiessa Str, 153 44 Athens +30 (210) 604945 4 / astathis@ergon.com.gr
I	Elmes KG	Via Artigianale Nord, 6, 39044 Neumarkt +39 (0471) 813399 / info@elmes.it
I	O.R.E. s.r.l.	Via Sassonia, 16/G, 47900 Rimini +39 (0541) 741003 / info@oreutensili.com

Country code	Company	Address/contact
JP	Toyo Kiko Inc.	717-5 Shimokuya-machi, 378-0061 Numata-shi +81 (278) 24 41 77 / r.adachi@toyo-fit.co.jp
NO	Grønvold Maskinservice A/S	Brobekkveien 104 A, 0613 Oslo +47 (23) 05 06 40 / Terje@gronvoldmaskin.no
NL	MG Service	Canadabaan 2, 5388 RT Nistelrode +31 (412) 617 299 / info@mgservice.nl
RU	KONTURS-SDM	Московская область, Солнечногорский район, Ленинградское шоссе, 34 км., стр. 15 (полигон МАДИ) +7 (499) 702-45-88 / remont@konturs-sdm.ru
S	Elektroverkstaden Kent Andersson AB	Propellervägen 7, 39241 Kalmar +46 (732) 30 57 40/ info@elektrov.se
UK	MEP LLA Glasgow - Depot 190	Unit K, Ashley Drive Bothwell, G71 8BS Glasgow +44 (1698) 740047 / angela.hepburn@vpplc.com
	Broughton Plant Hire	Unit 10, Trade City, Ashton Road, RM3 8UJ Romford, Essex +44 (1708) 383350 / steve@mbroughtonltd.co.uk



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