Important Safety Information

This guide contains important safety instructions for the Conext Battery Fuse Combiner Box that must be followed during installation procedures. Read and save these instructions—do not discard.

No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material. Errors or omissions notwithstanding, the use of this information is entirely at the user’s risk. This guide contains important safety instructions for the Conext Battery Fuse Combiner Box that must be followed during installation procedures. Read and save these instructions—do not discard.

1. Before using this product, read all instructions and cautionary markings on the unit, the batteries, and all appropriate sections of this manual.

2. Use of accessories not recommended or sold by the manufacturer may result in a risk of fire, electric shock, or injury to persons.

3. The manufacturer recommends that all wiring be done by a qualified technician or electrician to ensure adherence to the local and national electrical code applicable in your jurisdiction.

4. To avoid a risk of fire and electric shock, make sure that existing wiring is in good condition and that wires are not undersized. Do not operate the equipment with damaged or substandard wiring.

5. Only use replaceable fuses that are approved for use in this equipment. Always use approved fuses of the size, type, and rating specified only. Failure to follow these instructions can result in death or serious injury.

6. Electrical equipment must only be installed and serviced by qualified electrical personnel. Servicing of batteries must only be performed or supervised by qualified personnel with knowledge of batteries and their required precautions.

7. To reduce the risk of electrical shock, disconnect both AC and DC power from the equipment before attempting any maintenance or cleaning operations or working on any components connected to the equipment. Putting the unit in Standby mode will not reduce this risk.

8. The equipment must be provided with an equipment-grounding conductor connected to the AC input ground. Use copper wire for the equipment-grounding conductor. Do not reconnect the combiner box to AC power during an electrical storm or while the equipment is de-energized.

9. Do not expose the unit to rain, snow, or liquids of any type. This product is designed for indoor use only. Damp environments will significantly shorten the life of the product. The corrosion caused by dampness will void the warranty and may result in a risk of electrical shock or fire. Internal components rather will charged after all power is disconnected.

10. To reduce the risk of electrical shock, disconnect both AC and DC power from the equipment before attempting any maintenance or cleaning operations or working on any components connected to the equipment. Use copper wire for the equipment-grounding conductor.

11. Remove personal metal items such as rings, bracelets, necklaces, and watches when working with electrical equipment.

12. Use metal tools or objects on batteries, battery circuits, or any other component of the equipment.

13. Do not lay tools or other metal parts on top of batteries.

14. When working with batteries, be sure to wear protective glasses, gloves, and boots.

15. Batteries must be installed in a well-ventilated area to help prevent the possible buildup of explosive gases. Keep sparks and flames away from the batteries and the equipment.

16. Use appropriate personal protective equipment (PPE) and follow safe work practices.

17. Keep unqualified personnel away from batteries.

18. Do not use coarse-stranded cable; the lack of flexibility may pull DC terminal connections out of alignment or result in damage to cable insulation.

19. Do not under size cables; install cables sized in accordance with national electrical codes and equipment rated capacity.

20. Do not put anything between the cable lug and the terminal surface. Failure to follow these instructions can result in death or serious injury.

21. When connecting battery cables, tighten connections except for cable lug; soldered connections alone are not sufficient.

22. Battery Circuit Breakers must be installed according to the specifications and requirements specified by Schneider Electric.

23. Install safety barriers and display a danger sign.

24. Apply appropriate personal protective equipment (PPE) and follow safe work practices (Recommended).

25. Non-consumable parts are not considered to be batteries. This guide contains important safety instructions for the Conext Battery Fuse Combiner Box that must be followed during installation procedures. Read and save these instructions—do not discard.

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27. Battery Fuse Combiner Box 160:

Battery Fuse Combiner Box 160:
865-1030-01

Battery Fuse Combiner Box 250:
865-1031-01

28. Battery Fuse Combiner Box 250:

3. Wall-mount

Battery Fuse Combiner Box 160:
865-1030-01

Battery Fuse Combiner Box 250:
865-1031-01

29. Make sure you have the correct equipment for the job. Use only the recommended hardware for wall mounting.

30. Use mounting hardware appropriate for wall material.

31. Battery Fuse Combiner Box 250:

NOTE: Use mounting hardware appropriate for wall material (Wall-mounting hardware not included.)

32. Battery Fuse Combiner Box 250:

Contact Information

www.SEsolar.com

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Connect DC cables from your Conext product (see Compatible Products) to the upper terminals of the Battery Fuse Combiner Box.

When connecting batteries, verify proper polarity, stacking order, and appropriate torque values. For more information, consult the documentation of your Conext product.

Optional: To reduce the number of DC cables running to your batteries, install the combiner bar (included) onto the lower terminals of the Battery Fuse Combiner Box, as shown below.

Connect DC cables from the lower terminals of the Battery Fuse Combiner Box to your batteries.

When connecting batteries, verify proper polarity, stacking order, and appropriate torque values. For more information, consult your battery manufacturer’s recommendations.

Install fuses

Battery Fuse Combiner Box 160:

Battery Fuse Combiner Box 250:

Attach covers

Close fuse door

HAZARD OF EXPLOSION OR ARC FLASH

Do not open fuse door while under load.

Failure to follow these instructions can result in death or serious injury.

Technical Specifications

Conext Battery Fuse Combiner Box 160

Conext Battery Fuse Combiner Box 250

Electrical specifications

Nominal voltage
24 / 48 V DC

Nominal current
160 A

250 A

Fuse specifications

Type
DIN

DIN

Size
NH00, NH000

NH1

Number
3

3

Cable connections

Quantity per pole
3

3

Minimum cable size
95 mm²

150 mm²

Terminal type
M8

M10

General specifications

Part number
865-1030-01

865-1031-01

Product dimensions
16.3 x 10.7 x 8.0 cm

24.6 x 16.6 x 11.0 cm

115 x 62 x 4.5 mm

144 x 84 x 24 mm

135 x 97 x 10.4 mm

Shipping dimensions
29.2 x 15.8 x 14.5 cm

34.3 x 24.6 x 26.4 cm

11.5 x 6.2 x 4.5 in

13.5 x 9.7 x 10.4 in

Product weight
1.4 kg (3.1 lb)

3.6 kg (7.9 lb)

Shipping weight
1.8 kg (4.0 lb)

4.2 kg (9.2 lb)

Mounting options

Wall-mount, flush-mount

IP degree of protection
IP20 conforming to IEC 60529

Included parts

Fuse box

Mounting hardware

Terminal shield

Conext XW+ Inverter/Charger

XW 7048 E Product no. 865-7048-61

XW 8548 E Product no. 865-8548-61

Conext MPPT 60 150 Solar Charge Controller

Product no. 865-1030-1

Conext SW Inverter/Charger

SW 2524 230 Product no. 865-2524-61

SW 4024 230 Product no. 865-3524-61

Conext MPPT 80 600 Solar Charge Controller

Product no. 865-1032

Rules (3)

Includes:

Fuse bar

Mounting screws

Installation instructions

Warranty

2 - 5 years (depending on country)

Regulatory approval

CE

Markings

UL

IEC/EN 60947-1, IEC/EN 60947-3, IEC 60269-2-1

EN 61010-1

IP20 conforming to IEC 60529

Compatibility

Conext XW+ Inverter/Charger

XW 7048 E Product no. 865-7048-61

XW 8548 E Product no. 865-8548-61

Conext MPPT 60 150 Solar Charge Controller

Product no. 865-1030-1

Conext SW Inverter/Charger

SW 2524 230 Product no. 865-2524-61

SW 4024 230 Product no. 865-3524-61

Conext MPPT 80 600 Solar Charge Controller

Product no. 865-1032

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