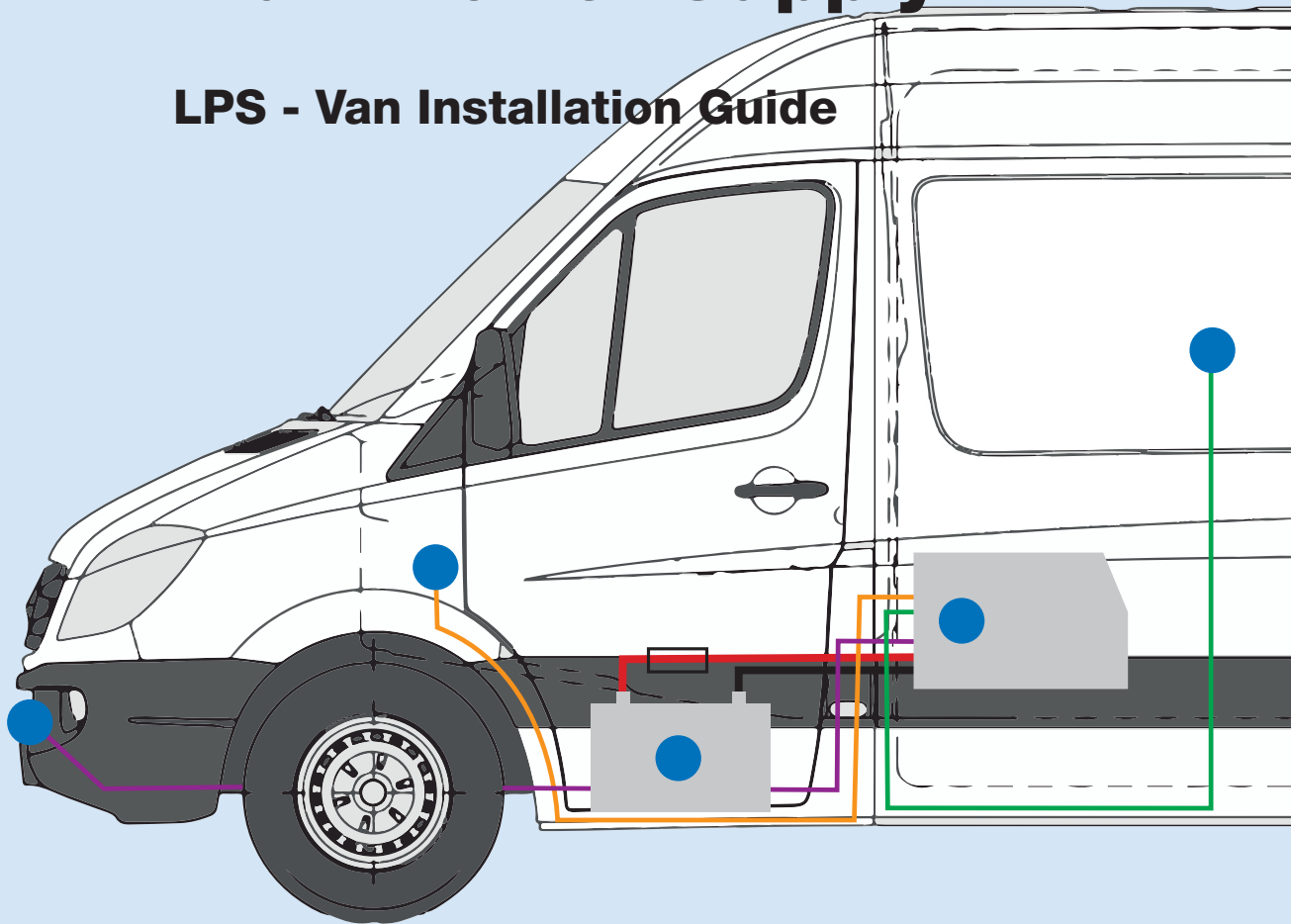


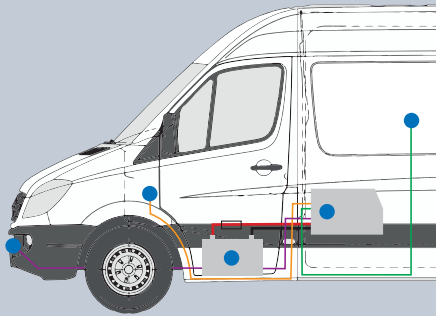
Lithium Power Supply

LPS - Van Installation Guide



LPS

Van Installation Guide



LPS - Van Installation Guide

Common setup with main functions:

12V Output

230V Output

Charging from the van

Charging from mains

LPS Remote

LPS

- 1a Unpacking
- 1b Mounting

Charging from the van

- 2a Starter battery
- 2b D+ Ignition signal

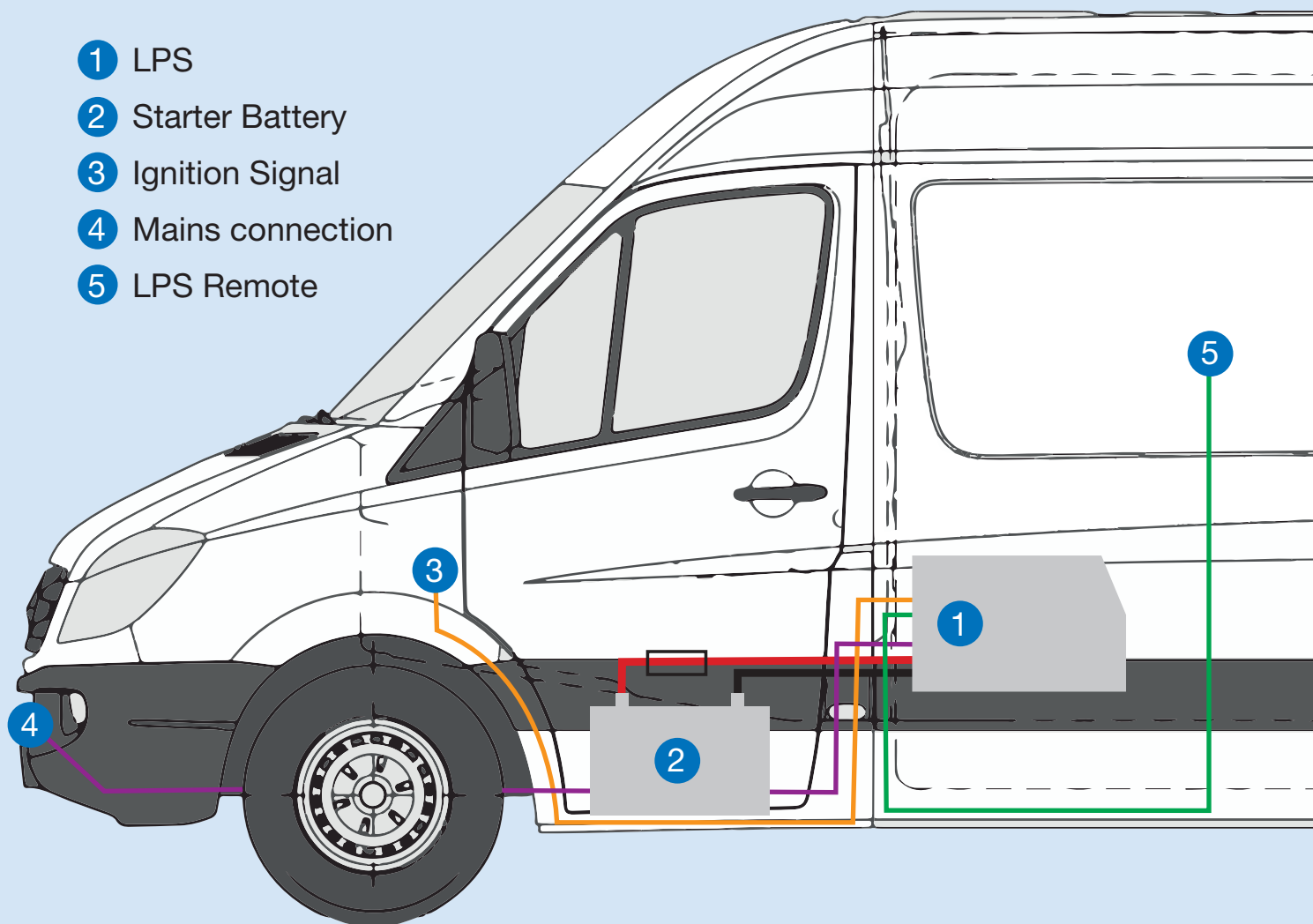
Charging from mains

- 3 Mains connection

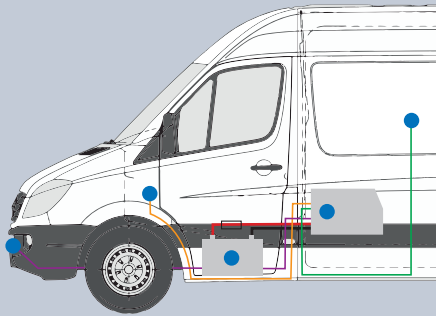
Outputs

- 4a 12V Output
- 4b 230V Output
- 5 LPS Remote
- 6 Test

- 1 LPS
- 2 Starter Battery
- 3 Ignition Signal
- 4 Mains connection
- 5 LPS Remote



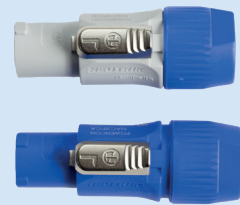
LPS Van Installation Guide



LPS - Lithium Power Supply Unpacking



LPS - Lithium Power Supply



Neutrik 230V Connector
1x Blue: 230V/50Hz IN
1x Grey: 230V/50Hz OUT



Anderson SB50 DC Connector
1x Grey: DC IN
1x Red: DC OUT



4x Anderson SB50 pins

LPS

1a Unpacking

1b Mounting

Charging from the van

2a Starter battery

2b D+ Ignition signal

Charging from mains

3 Mains connection

Outputs

4a 12V Output

4b 230V Output

5 LPS Remote

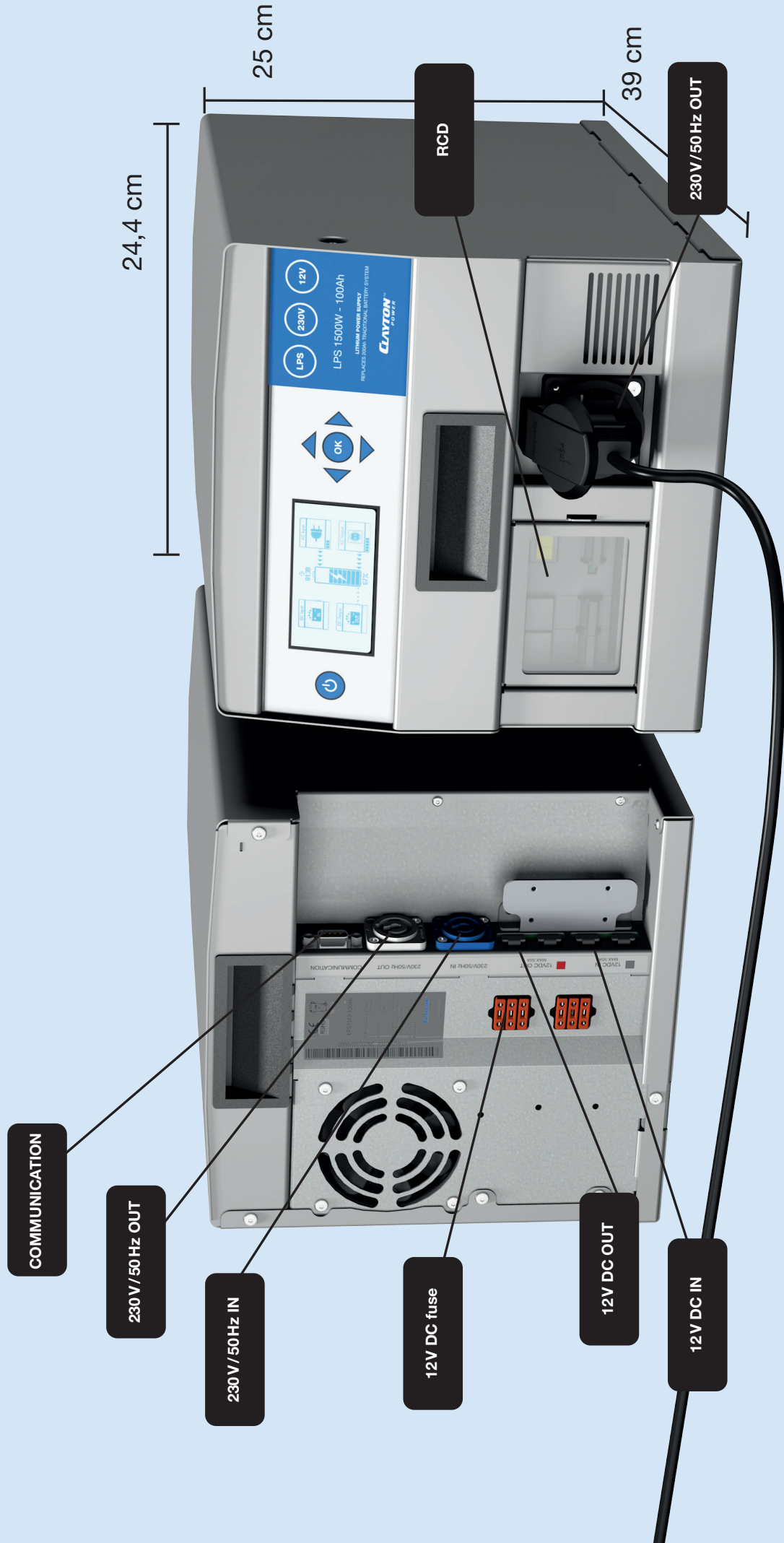
6 Test



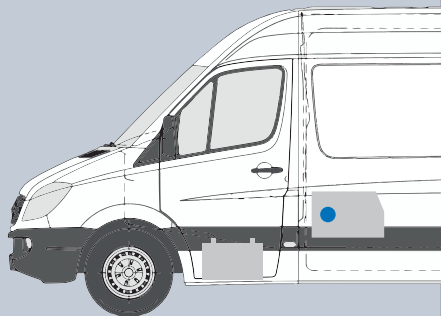
4x M3 screws for the
Anderson connectors



1x DB9 Communication



LPS Van Installation Guide



LPS - Lithium Power Supply Mounting

LPS Mounting Console (recommended)

Mount the LPS in the van by using an LPS Mounting Console and 4 screws D4,20.

Part No.: ACWO00107GF

Dimensions: 420 x 300 x 55 mm

Not included the LPS as standard.

LPS

1a Unpacking

1b **Mounting**

Charging from the van

2a Starter battery

2b D+ Ignition signal

Charging from mains

3 Mains connection

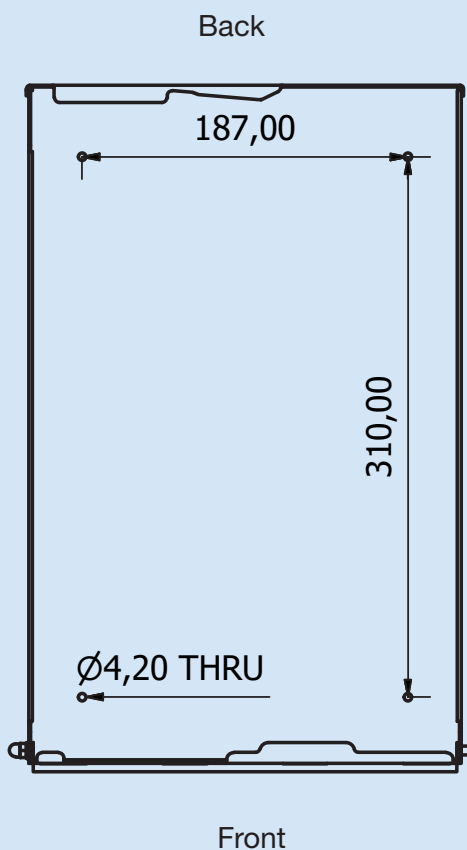
Outputs

4a 12V Output

4b 230V Output

5 LPS Remote

6 Test

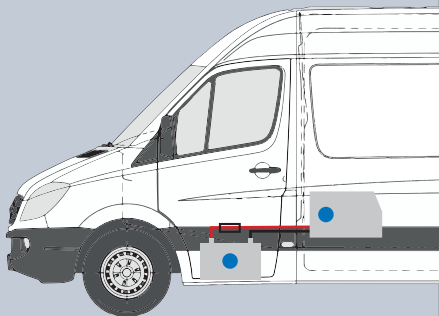




ATTENTION: Mount the LPS topside up, never upside down or on the side.

ATTENTION: The LPS has forced air cooling. Make sure air can flow freely around the unit.
The LPS has four M5 mounting holes in the bottom.

LPS Van Installation Guide



Charging from the van **Starter Battery**

LPS (12VDC IN) ► Starter Battery

Connect the LPS to plus and minus pole
on the starter battery.

Plus to Plus - including 100A DC fuse
Minus to Minus (direct connection is recommended)

Use 16 mm² cable. Maximum length: 5m

LPS

- 1a Unpacking
- 1b Mounting

Charging from the van

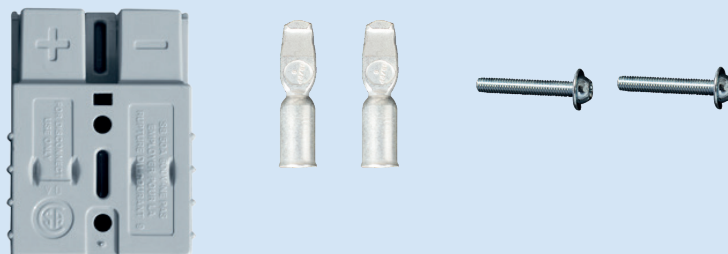
- 2a Starter battery
- 2b D+ Ignition signal

Charging from mains

- 3 Mains connection

Outputs

- 4a 12V Output
- 4b 230V Output
- 5 LPS Remote
- 6 Test

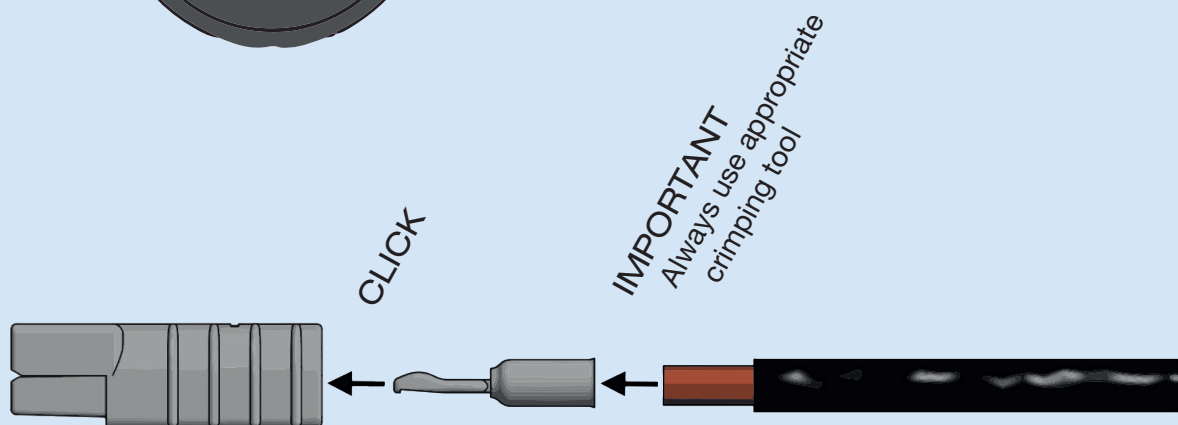
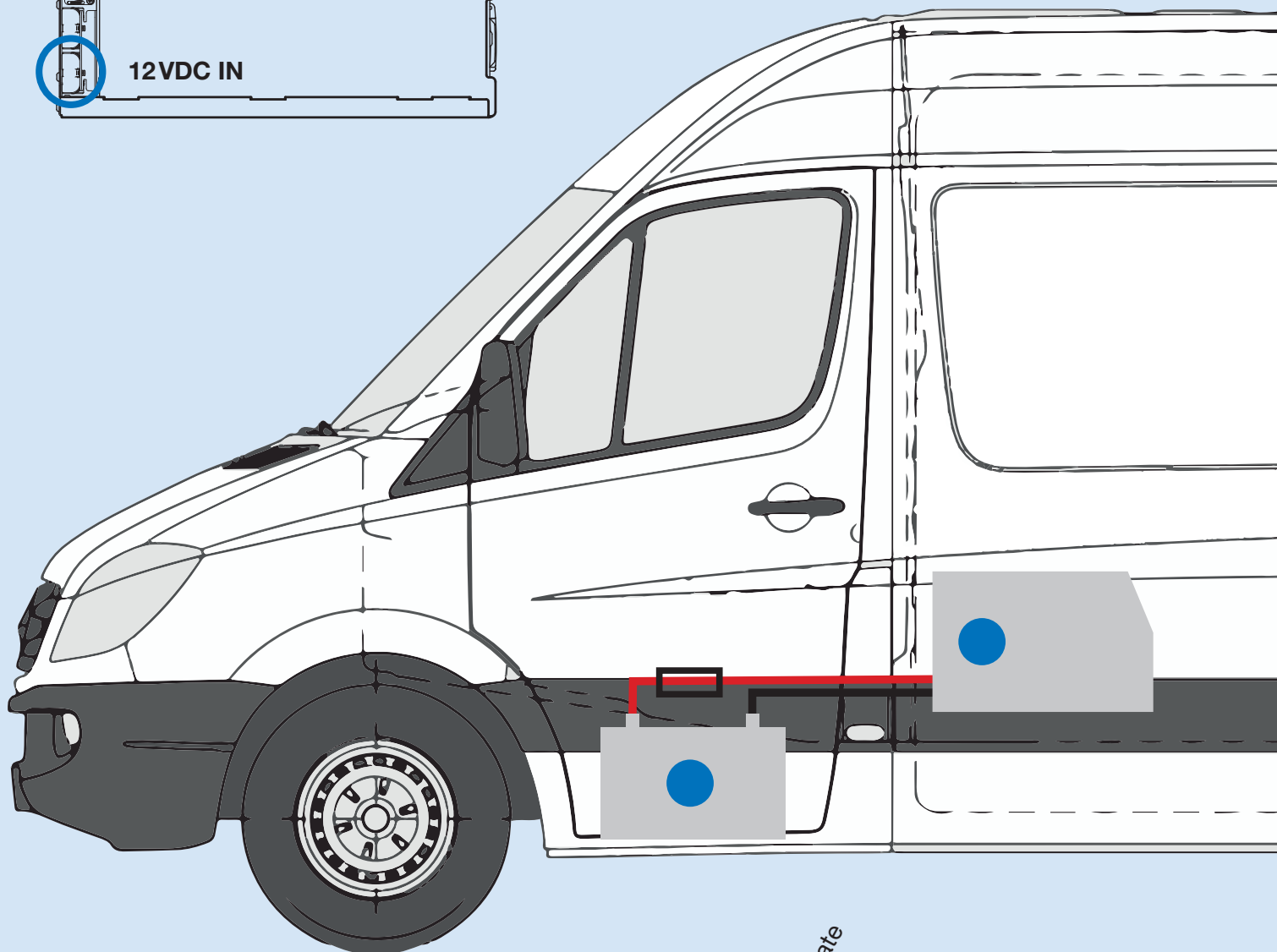
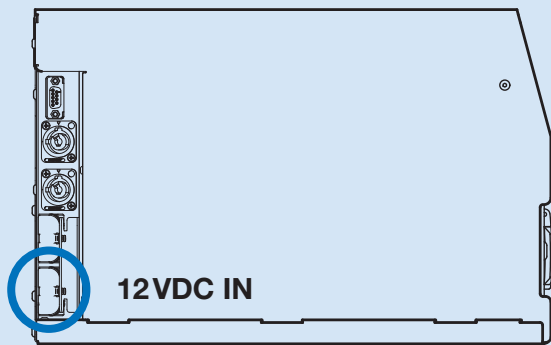


DC Fuse and Fuse Holder

DC Fuse Holder
Part no.: ACWO 00102GF

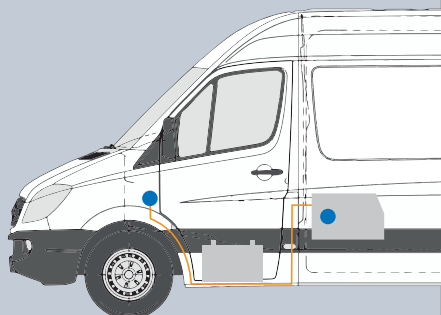
DC 100A Fuse
Part no.: ACWO 00103GF





Note: Assembling the power cable correctly is important as the power load may be high.

LPS Van Installation Guide



Charging from the van

D+ Ignition signal

LPS (COMMUNICATION - PIN 9) ► D+ Ignition signal

For automatic charging when the van turns on.

Connect a 0,75 mm² wire to pin 9 in the DB9 connector to the van's fuse box with D+ ignition signal.

LPS

- 1a Unpacking
- 1b Mounting

Charging from the van

- 2a Starter battery
- 2b D+ Ignition signal

Charging from mains

- 3 Mains connection

Outputs

- 4a 12V Output
- 4b 230V Output
- 5 LPS Remote
- 6 Test



Example:

Fuse Holder with Power Distributor

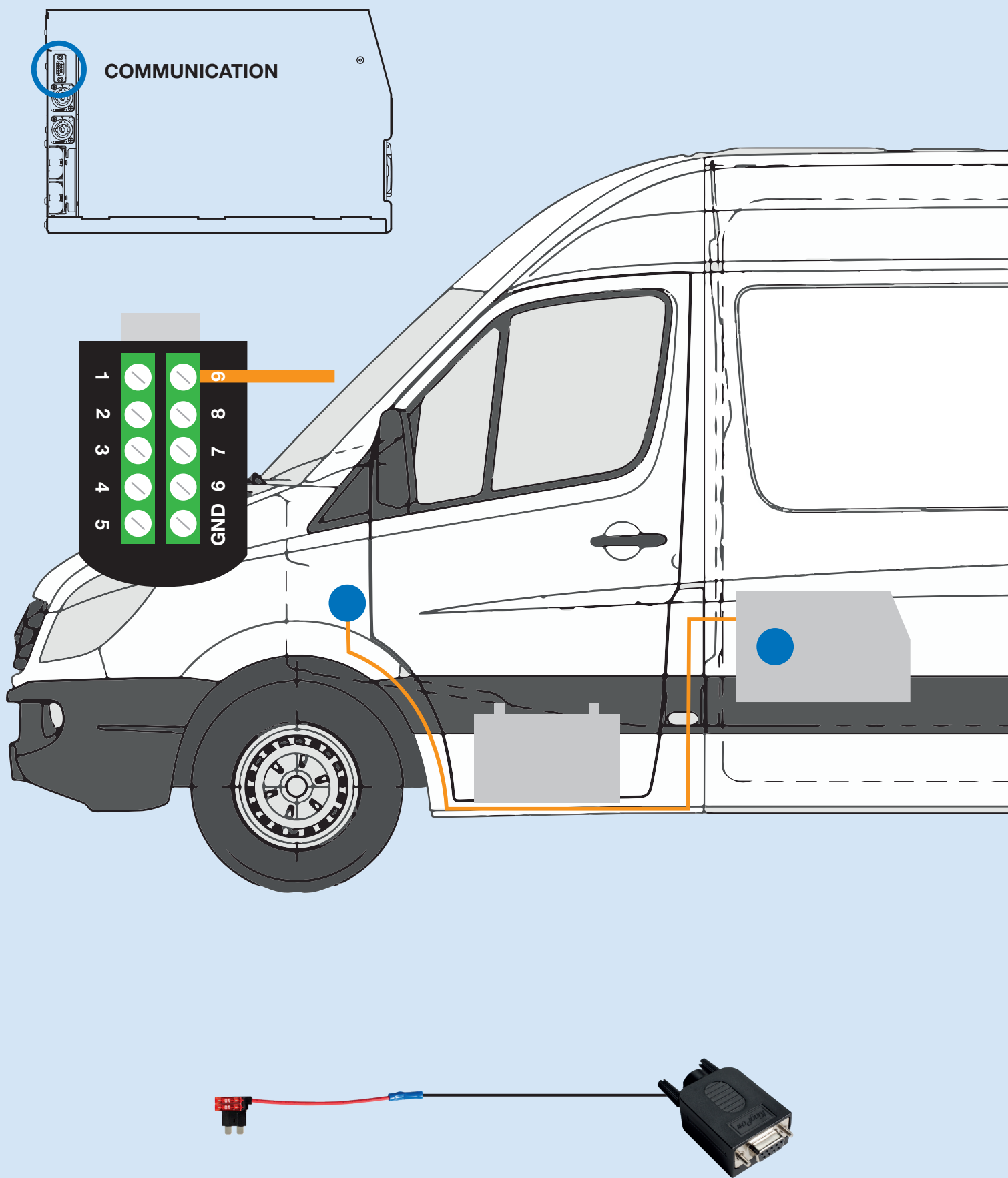
For easy connection in the van's fuse box:
Remove the fuse in the van and replace it with
a wire with a double fuse holder.

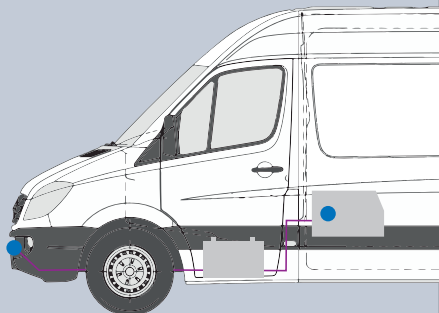
Connect the wire to the pin 9 in the DB9.

Double fuse holder in 3 versions:

Micro cable + 10A fuse
Mini cable + 10A fuse
Standard cable + 10A fuse







Charging from mains

Mains connection

LPS (230V IN) ► Mains connector/plug

Connect the Blue Neutrik with a power cord to a 230V plug/connector.



LPS

- 1a Unpacking
- 1b Mounting

Charging from the van

- 2a Starter battery
- 2b Ignition signal

Charging from mains

► 3 Mains connection

Outputs

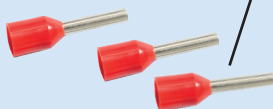
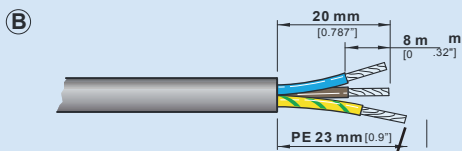
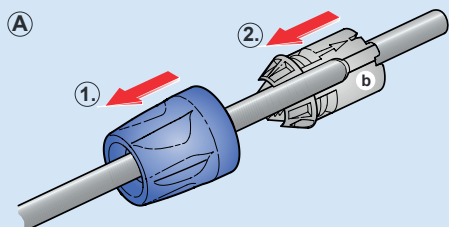
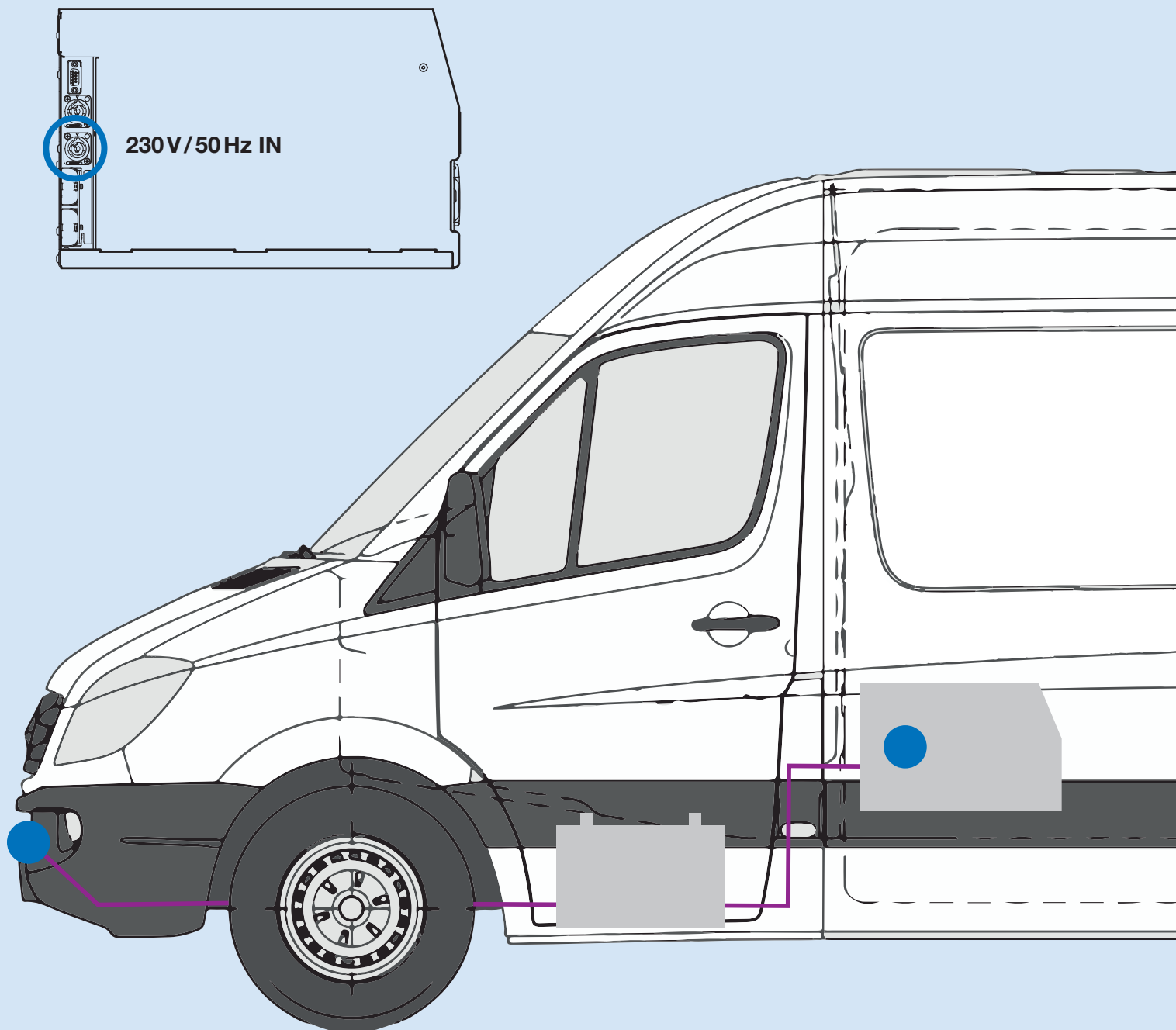
- 4a 12V Output
- 4b 230V Output
- 5 LPS Remote
- 6 Test

Example:

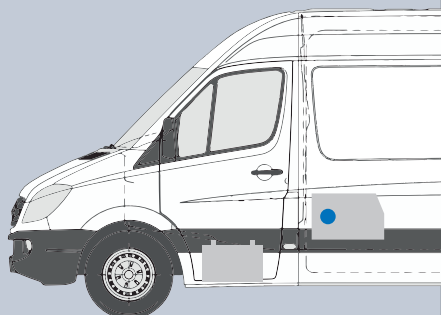
MiniPlug inlet cable
for mounting in the bumper.



**Note: If extra charger is installed for the starter battery:
See page 7 in the User Manual.**



LPS Van Installation Guide



Outputs **12V Output**

LPS (12VDC OUT) ► 12V Appliances

Connect all fixed 12V appliances in the van via a DC fuse box.

Use 16 mm² cable. Maximum length 5 m.



LPS

- 1a Unpacking
- 1b Mounting

Charging from the van

- 2a Starter battery
- 2b Ignition signal

Charging from mains

- 3 Mains connection

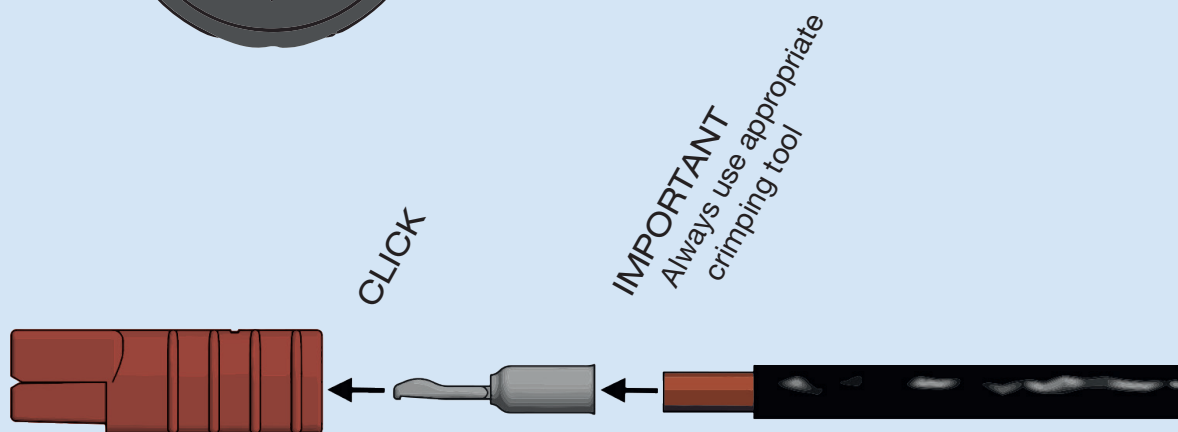
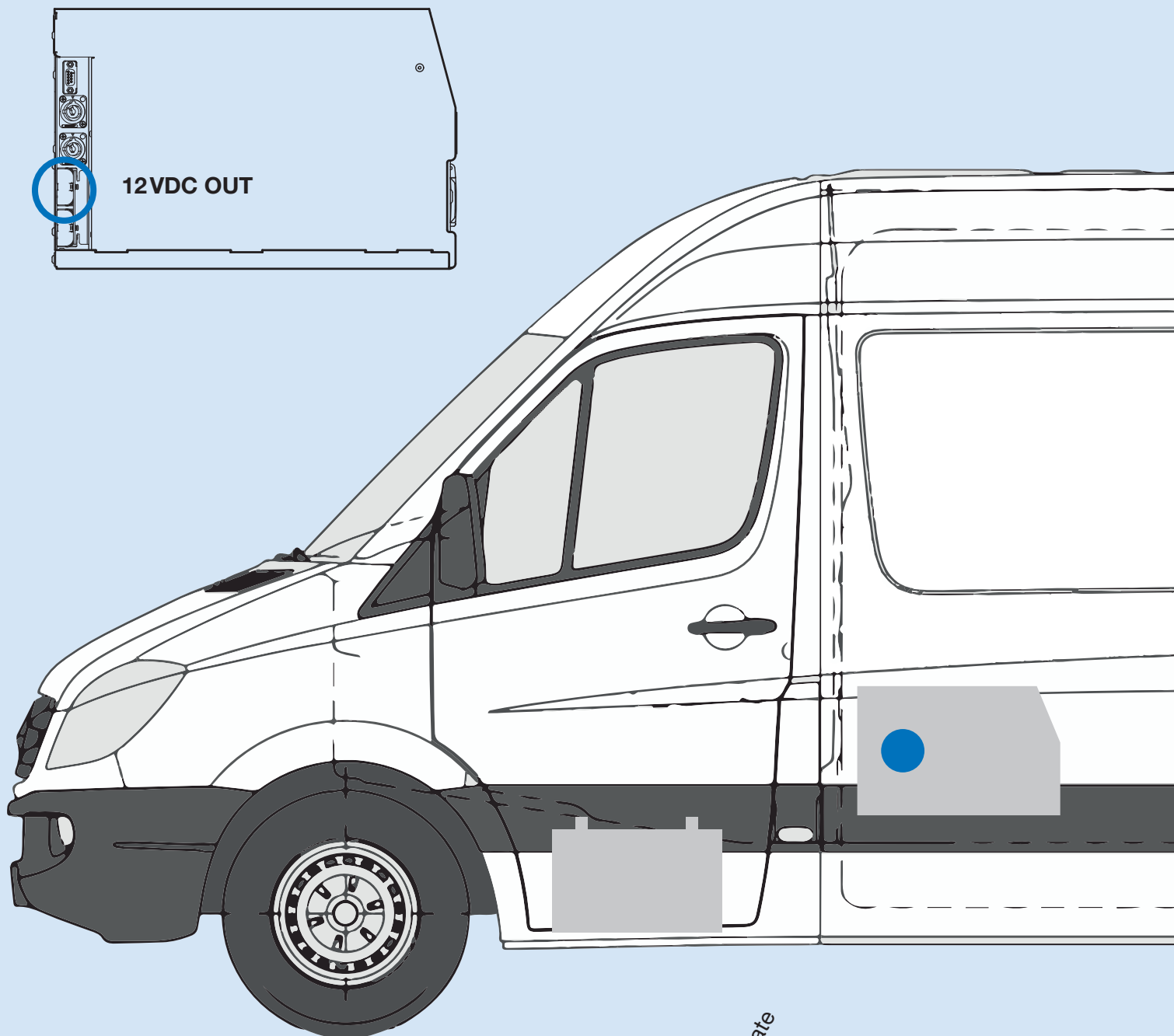
Outputs

- **4a 12V Output**
- 4b 230V Output
- 5 LPS Remote
- 6 Test

Example:
12V DC fuse box.

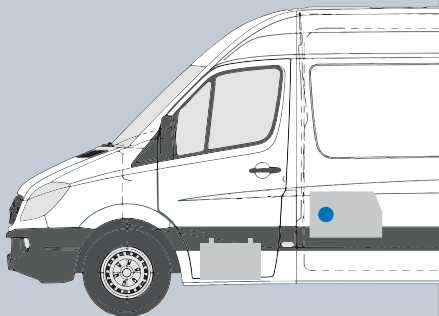
Always use a fuse box in case of break down of an appliance.





Note: Assembling the power cable correctly is important as the power load may be high.

LPS Van Installation Guide

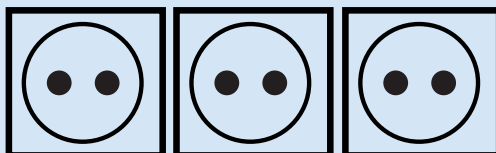


Outputs

230 V Output

LPS (230 V OUT) ► 230V/50Hz Appliances

Connect the Grey Neutrik connector for the 230V outlets.



LPS

- 1a Unpacking
- 1b Mounting

Charging from the van

- 2a Starter battery
- 2b Ignition signal

Charging from mains

- 3 Mains connection

Outputs

- 4a 12V Output
- 4b 230V Output
- 5 LPS Remote
- 6 Test

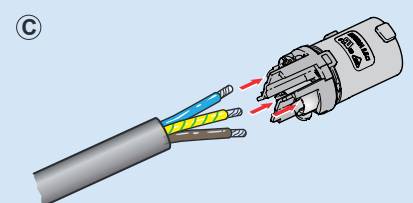
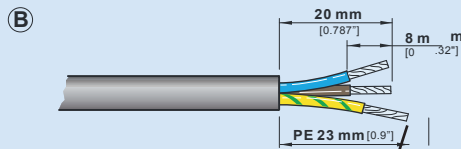
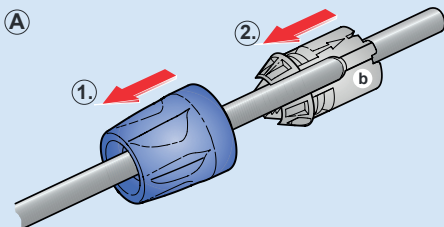
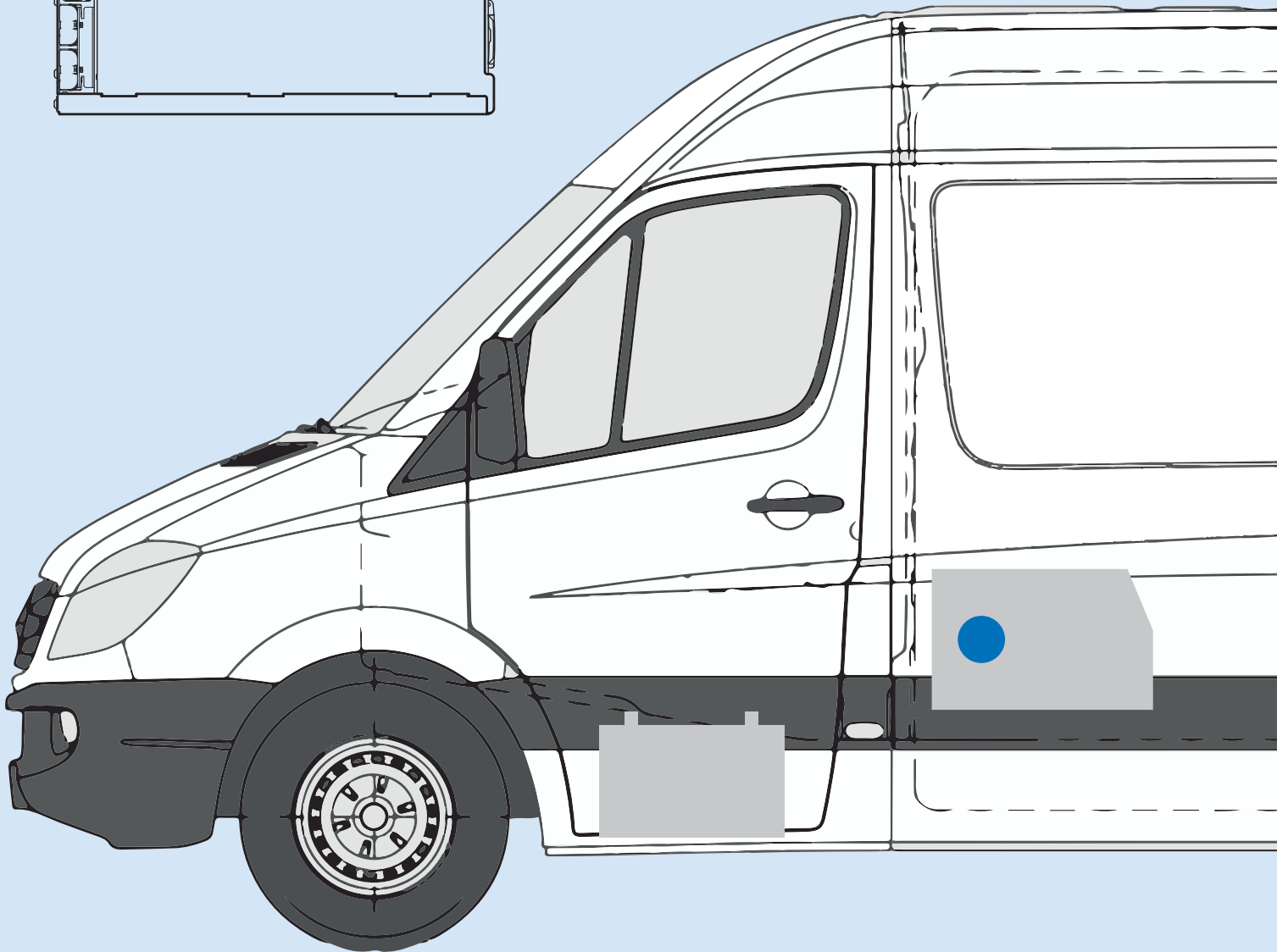
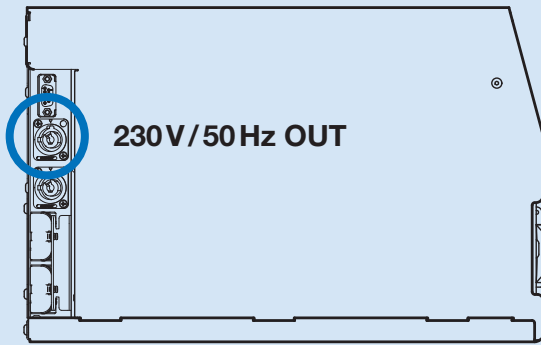
Fuses

Both 230V outputs on the LPS (Schuko on the front, Neutrik in the back) are protected with 8A or 10A relays (depending on model) and an RCD, which allow you to make fixed 230V installations in the van.

If an installation is wired around the LPS, separate relays must be used.

General function

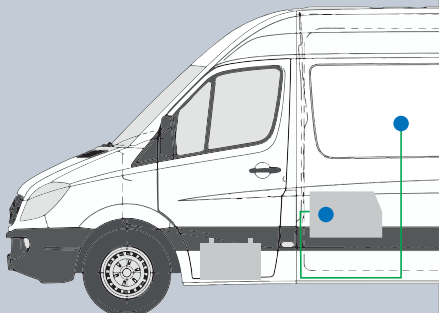
When 230V In is connected the 230V power will be looped directly through the unit.



Example:

Wire Ferrules to secure connection to terminal blocks.

LPS Van Installation Guide



LPS Remote

LPS (COMMUNICATION) ► LPS Remote

PIN 1: Yellow
PIN 3: Grey/blue
PIN 4: White
PIN 5: Green



Connect the four wires from the LPS Remote in the DB9 connector.

The brown wire is not in use.

LPS

- 1a Unpacking
- 1b Mounting

Charging from the van

- 2a Starter battery
- 2b Ignition signal

Charging from mains

- 3 Mains connection

Outputs

- 4a 12V Output
- 4b 230V Output

► 5 LPS Remote

- 6 Test

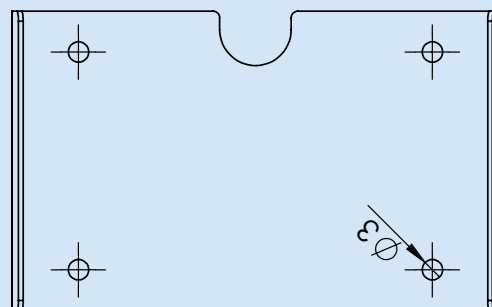
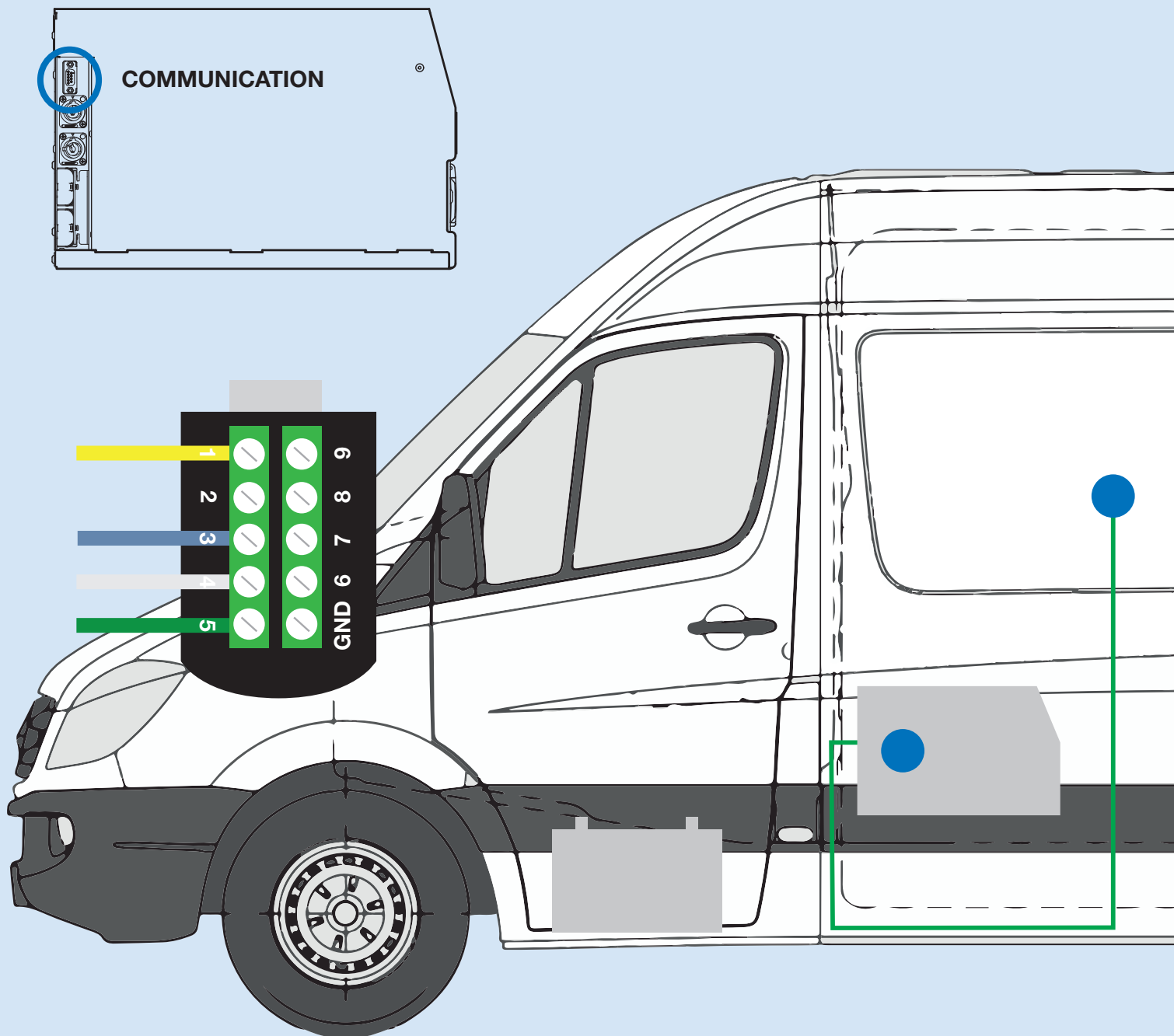
LPS Remote

The LPS Remote is fitted with a 6m cable and a bracket.

The LPS Remote is not included with the LPS as standard.

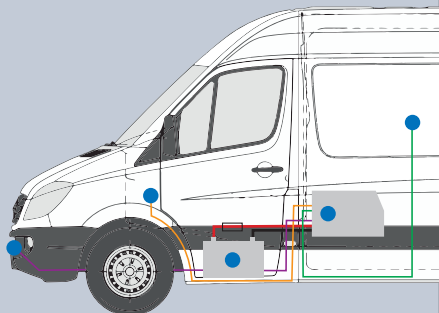
Dimensions: 75 x 50 x 15 mm
Part no.: 025-00001GF



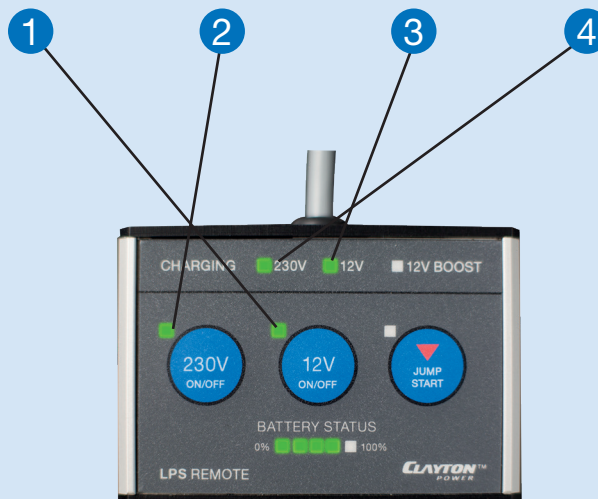


LPS Remote Mounting Bracket

LPS Van Installation Guide



Test



LPS

- 1a Unpacking
- 1b Mounting

Charging from the van

- 2a Starter battery
- 2b Ignition signal

Charging from mains

- 3 Mains connection

Outputs

- 4a 12V Output
- 4b 230V Output
- 5 LPS Remote

6 Test

- 1 Push the 12V LPS Remote button**
Check that the LPS starts up and 12V appliances turn on
- 2 Push the 230V LPS Remote button**
Check that the LPS turns on 230V and test 230V appliances
- 3 Charging from the van**
Turn on the engine - green light is lit (after less than 10 seconds)
- 4 Charging from mains**
Connect 230V to the 230V input - green light is lit