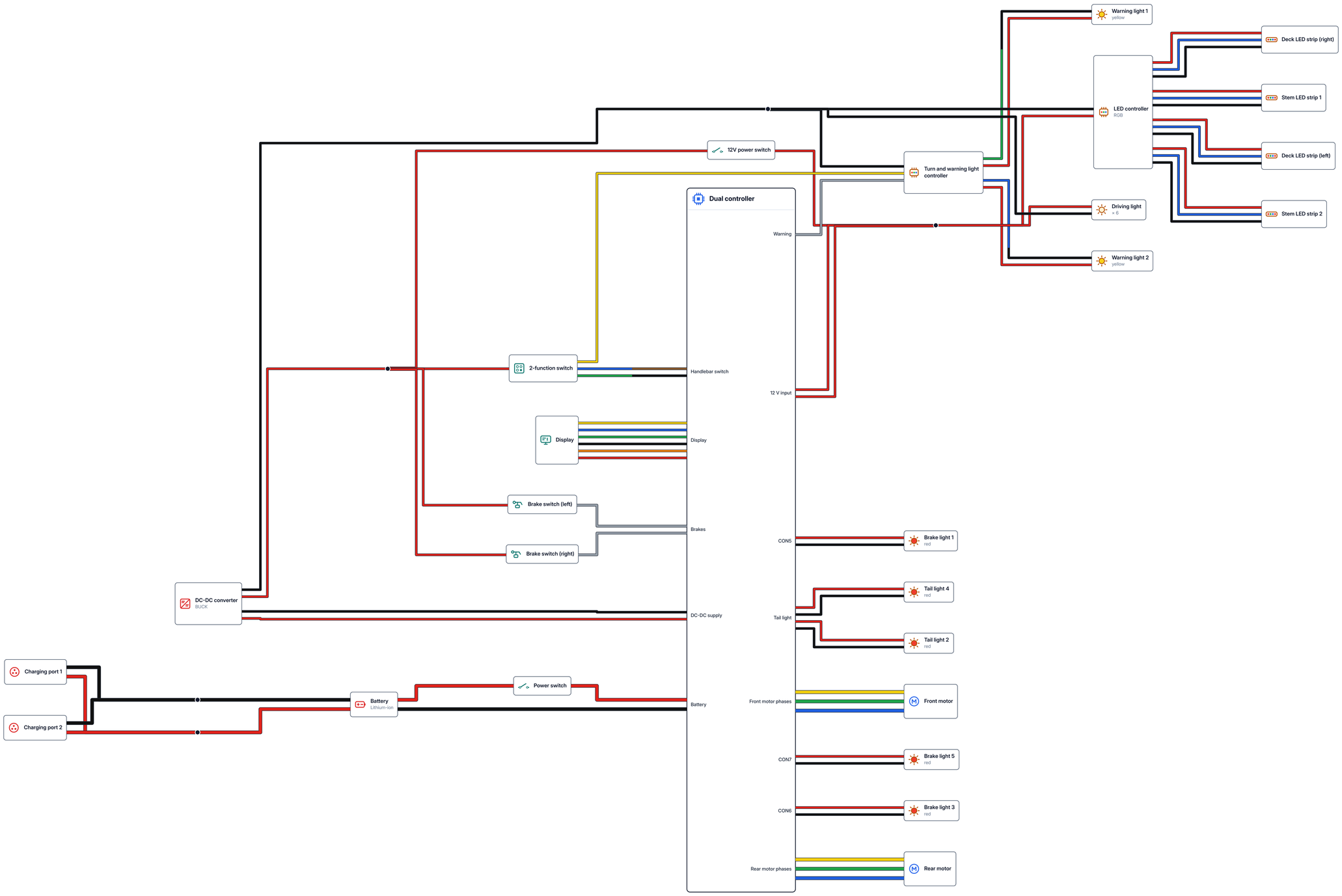
WIRING DIAGRAM

# Dualtron Ultra 2

FOHZSHOP.FR




## WIRE COLOURS

| | | | |
|---|---|---|---|
| Black BK | Blue BU | Brown BN | Green GN |
| Grey GY | Orange OG | Red RD | Yellow YE |

## MARKS

Splice: wires are joined at this point

## NOTES

1. On the original, most wires reach the controller through a single harness drawn as a bus, without saying which terminal each one lands on. Only brake lights 1, 3 and 5 have a named connector: CON5, CON6 and CON7.
2. Tail lights 2 and 4 and the two red wires coming from the 12V power switch enter this harness. The original does not show whether they are joined there.
3. The five red lights are numbered 1 to 5 on the original: 1, 3 and 5 are brake lights, 2 and 4 tail lights. CON5, CON6, CON7 and the lead-out of tail lights 2 and 4 are drawn in a frame titled "Inside the controller".
4. On the original drawing, the battery's black wire, the converter's black input wire and the common black wire of the lighting are also tied to ground.
5. The 2-function switch leads leave it blue and green, then continue brown and black. The warning light wires change from green or blue to black. No connector is drawn in between.
6. The original draws no plug and does not give the battery voltage.
7. The original diagram shows no throttle.

## DOCUMENT

Based on the manufacturer diagram "Schéma électrique DUALTRON Ultra 2".

Redrawn by FôhzShop on 1 November 2026.

**Disconnect the battery before any work.**

## CONNECTOR PINOUT

| Connector | To | Wire |
|---|---|---|
| **Dual controller**<br>Front motor phases | **Front motor** | Yellow · Motor phase<br>Green · Motor phase<br>Blue · Motor phase |
| **Dual controller**<br>Rear motor phases | **Rear motor** | Yellow · Motor phase<br>Green · Motor phase<br>Blue · Motor phase |
| **Dual controller**<br>DC-DC supply | **DC-DC converter**<br>Input | Black · Ground<br>Red |
| **Battery**<br>Output | **Power switch** | Red · Battery + |
| **Battery**<br>Output | **Dual controller**<br>Battery | Black · Battery − |
| **Charging port 1** | **Splice** | Black · Charge −<br>Red · Charge + |
| **Charging port 2** | **Splice** | Black · Charge −<br>Red · Charge + |
| **Splice** | **Battery**<br>Charge | Black · Charge −<br>Red · Charge + |
| **Power switch** | **Dual controller**<br>Battery | Red · Battery + |
| **Display** | **Dual controller**<br>Display | Yellow<br>Blue<br>Green<br>Black<br>Orange<br>Red |

| Connector | To | Wire |
|---|---|---|
| **DC-DC converter**<br>Output | **Splice** | Red · +12 V |
| **DC-DC converter**<br>Output | **Splice** | Black · Ground |
| **Splice** | **12V power switch** | Red · +12 V |
| **Splice** | **2-function switch** | Red · +12 V |
| **Splice** | **Brake switch (left)** | Red · +12 V |
| **Splice** | **Brake switch (right)** | Red · +12 V |
| **12V power switch** | **Splice** | Red |
| **Splice** | **Dual controller**<br>12 V input | Red<br>Red |
| **Driving light** | **Splice** | Red<br>Black · Ground |
| **LED controller**<br>Power | **Splice** | Black · Ground<br>Red |
| **LED controller**<br>RGB output 1 | **Stem LED strip 1** | Red<br>Blue<br>Black |
| **LED controller**<br>RGB output 2 | **Stem LED strip 2** | Red<br>Blue<br>Black |
| **LED controller**<br>RGB output 3 | **Deck LED strip (left)** | Red<br>Blue<br>Black |

| Connector | To | Wire |
|---|---|---|
| **LED controller**<br>RGB output 4 | **Deck LED strip (right)** | Red<br>Blue<br>Black |
| **Brake switch (left)** | **Dual controller**<br>Brakes | Grey |
| **Brake switch (right)** | **Dual controller**<br>Brakes | Grey |
| **2-function switch** | **Turn and warning light controller** | Yellow |
| **2-function switch** | **Dual controller**<br>Handlebar switch | Blue, then brown<br>Green, then black |
| **Turn and warning light controller** | **Splice** | Black · Ground |
| **Turn and warning light controller** | **Dual controller**<br>Warning | Grey |
| **Turn and warning light controller**<br>Output 1 | **Warning light 1** | Green, then black<br>Red |
| **Turn and warning light controller**<br>Output 2 | **Warning light 2** | Blue, then black<br>Red |
| **Brake light 1** | **Dual controller**<br>CON5 | Red<br>Black |
| **Tail light 2** | **Dual controller**<br>Tail light | Red<br>Black |
| **Brake light 3** | **Dual controller**<br>CON6 | Red<br>Black |
| **Tail light 4** | **Dual controller**<br>Tail light | Red<br>Black |
| **Brake light 5** | **Dual controller**<br>CON7 | Red<br>Black |