WhisperPower Battery Links are smart switch regulators that automatically connect two battery banks if the charge voltage rises above a certain value for at least five seconds. This means that the battery banks can be charged from the same source. To protect the battery banks they are separated from each other as soon as the voltage drops.

**Features and Benefits**

- Simultaneous charging of two batteries
- Intelligent battery monitoring function
- Safe connect algorithm
- Temporary additional power with start assist function
- Simultaneous charging of two batteries
- Simple to install, no programming required
- Compact and robust
- Automatic relay to connect battery banks
- Automatic isolation with voltage drop
- Remote control possible (optional)
- Connect battery banks in parallel for emergency start
- LED indicators
** TECHNICAL SPECIFICATIONS **

<table>
<thead>
<tr>
<th>Article Nr.</th>
<th>WBL-120</th>
<th>WBL-140</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Weight</strong></td>
<td>125 grams</td>
<td>125 grams</td>
</tr>
<tr>
<td><strong>Dimensions (l × w × h)</strong></td>
<td>46 × 80 × 46 mm</td>
<td>46 × 80 × 46 mm</td>
</tr>
<tr>
<td><strong>Continuous capacity</strong></td>
<td>120 A</td>
<td>140 A</td>
</tr>
<tr>
<td><strong>Peak capacity / inrush current 10s</strong></td>
<td>180 A</td>
<td>180 A</td>
</tr>
<tr>
<td><strong>Input voltage</strong></td>
<td>9 .. 35 VDC</td>
<td>8 .. 35 VDC</td>
</tr>
<tr>
<td><strong>Operating temperature</strong></td>
<td>-40 .. 65°C</td>
<td>-40 .. 65°C</td>
</tr>
<tr>
<td><strong>Maximum voltage drop</strong></td>
<td>0.5 VDC (Approx. 10s delay during disconnection)</td>
<td></td>
</tr>
<tr>
<td><strong>Maximum allowable voltage difference</strong></td>
<td>8.0 VDC</td>
<td></td>
</tr>
</tbody>
</table>

**AUTOMATIC OPERATION**

| **Switch-on voltage (minimum)** | >13 V at 12 V / >26 V for 24 V installations |
| **Connection delay** | 5 sec. |
| **Switch-on voltage (maximum)** | 15.0 V at 12 V / 30.0 V for 24 V installations |
| **Disconnection voltage** | 12.75 V at 12 V / 25.4 V for 24 V installations |

**DC-CONSUMPTION**

| **OFF-Mode (relay not powered)** | 1.0 mA at 12 V / 1.1mA at 24 V |
| **ON-Mode (inrush current)** | 0.5 A at 12 V / 0.4 A at 24 V |
| **ON-Mode (relay powered)** | 50 mA at 12 V / 40 mA at 24 V |

**LED STATUS**

| **On** | Relay connected |
| **Flashing slowly (0.5Hz)** | Delay whilst connecting |
| **Flashing fast (2.5Hz)** | Alarm: Relay not powered as voltage difference is too big in OFF-Mode (>8.0 VDC) or due to voltage drop being too large in ON-Mode (0.5 VDC) |

**CONFORMITY**

| **CE** | Yes |

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**Example set up**

**WBL-120**

- AGM starter battery (engine)
- Dynamic
- 120 A model

**WBL-140**

- WP Combi

**WBL-160**

- Input
  - Smart battery switch: 4 c 6
  - Nominal input voltage: 12/24 VDC self detection
  - Input range no defects: 7 .. 32 V
- Output
  - Nominal output voltage: Equal to input voltage
  - Surge outgoing: 480 A
  - Maximum charge current 3s: 240 A
  - Continuous charging current: 160 A
  - Continuous charging current at 40 °C: 160 A
- General
  - Consumption in Standby: ±2mA
  - Consumption whilst charging 12 / 24 V: 340/170 mA
  - Consumption whilst charging 12 / 24 V: 340/170 mA
  - Ambient operating temperature: -10°C .. +40°C
  - Storage temperature: -25°C .. +85°C
  - International Protection rating: IP66
  - Voltage accuracy: 2%
  - Switch-on voltage 12 / 24 V: 13.2/26.4 V
  - Disconnection voltage 12 / 24 V: 12.8/25.4 V
  - Accelerated disconnection voltage 12 / 24 V: 11.8/23.6 V
  - Connection delay: 5s
  - Disconnection delay: 60s
  - Accelerated disconnection: 4s
- Protections
  - Polarity: Yes
  - Voltage too low: Yes
  - Voltage too high: Yes
- Features
  - Controlled microprocessor: Yes
  - Voltage too low: Yes
  - Voltage too high: Yes
  - Start assist: Yes
  - LED display: Yes
  - Output status: No
  - Input status: Yes
  - Remote shutdown: No
- Mechanical specifications
  - Connection in / out: MB
  - Connections min / status / remote: Faston 6.3mm
  - Dimensions (h × h × d): 58 × 72 × 108mm
  - Mounting holes: Dia 6mm, 88.5mm
  - Weight: 0.470kg
  - Housing / colour: Polyurethane / Black