

DC installations

Intelligent Battery Links

WP-BL 120 - 140 - 160



Datasheet



160 A model



120 A model

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



Generating Confidence

	WBL-120	WBL-140
Article Nr.	60110120	60110170
TECHNICAL SPECIFICATIONS		
Weight	125 grams	125 grams
Dimensions (l x w x h)	46 x 80 x 46 mm	46 x 80 x 46 mm
Continuous capacity	120 A	140 A
Peak capacity /inrush current 10s	180 A	180 A
Input voltage	9 .. 35 VDC	8 .. 35 VDC
Operating temperature	-40 .. 65°C	-40 .. 65°C
Maximum voltage drop	0.5 VDC (Approx. 10s delay during disconnection)	
Maximum allowable voltage difference	8.0 VDC	
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 / 25.5 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	

	WBL-160
Article Nr.	60110160
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 connecting 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	16/32 V
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	M8
Connections min / status / remote	Faston 6.3mm
Dimensions (h x h x d)	58 x 72 x 108mm
Mounting holes	Dia 6mm, 88.5mm
Weight	0.470kg
Housing / colour	Polyurethane / Black

Example set up

