

# SPECIFICATION

**Product Name: Li-Po battery protection module**

**Item Number: 15 51 51**

The module will protect a single rechargeable lithium polymer battery. Its high accuracy is predestinated for protection against overcharge, overdischarge and overcurrent. This module interrupted the connection between Li-Po battery and charging device or any load, if an error occurs. When the error was eliminated, the connection is automatically restored.

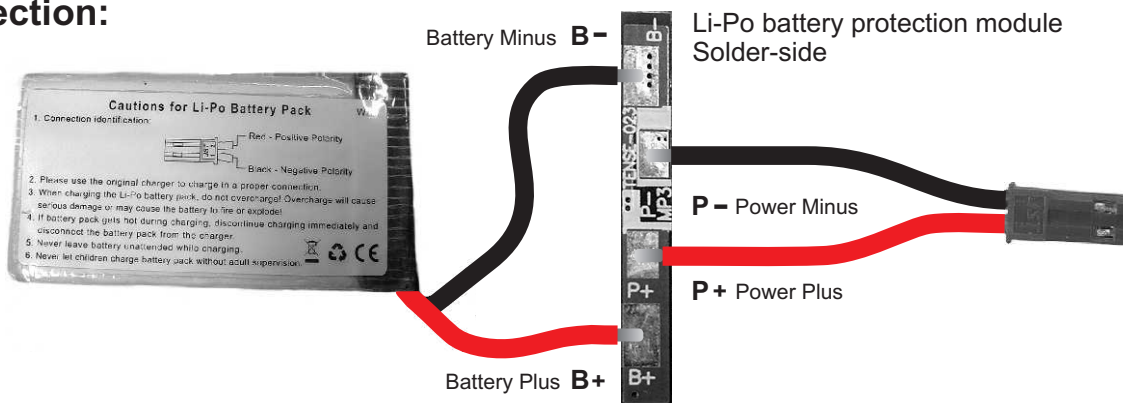
**Features:**

- Internal high accuracy voltage detection circuit
- Overcharge detection voltage
- Overdischarge detection voltage
- Delay times are generated by an internal circuit
- Three-step overcurrent detection circuit is included (Overcurrent 1, overcurrent 2 and load short-circuiting)
- Charger detection function and abnormal charge current detection function
- Wide operating temperature range -40 to +85 °C

**Electrical Parameter:**

Remark	Condition	Specification	Unit
Charge	Over voltage detection	4.28	V
	Over charge hysteresis	200	mV
Discharge	Low voltage detection	3.0	V
Current	Over current detection	>1.0 ~ 6.0	A
	Supply current	3.7 ± 0.2	µA
	Over charge detection delay time	1200 ± 200	ms
	Over discharge detection delay time	144 ± 29	ms

**Connection:**



**Dimensions: 28 x 3.6 x 1.8 mm (LxWxH)**



**Note:**  
This Li-Po battery protection module is a “non-CE-checked” component. The utilisation must comply with the CE norms.

These operating instructions are published by, Conrad Electronic SE, Klaus-Conrad-Straße 1, D-92240 Hirschau/Germany  
The operating instructions reflect the current technical specifications at time of print.

We reserve the right to change the technical or physical specifications.

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