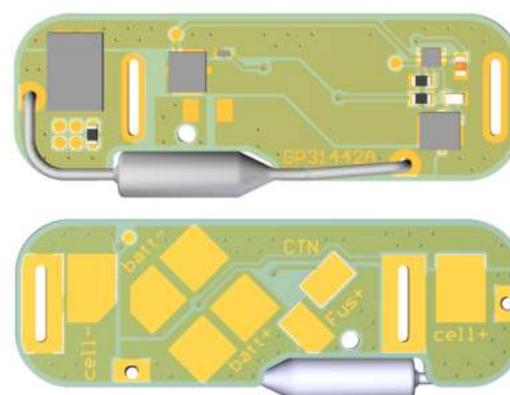


Battery safety

Single cell protection circuits

Electronic protection circuits for Li-ion 3.65 V MP xtd range of cells

The SPH is an integrated circuit which allows the user to add to a battery pack the protection components which enable the controlling of the protection components of the cells with a maximum of accuracy and reliability, depending on the protection required. For protection against short-circuits, a single cell SPH is by the battery pack.



Features

- Energy management for symmetry and balance
- Temperature and discharge depending on the type
- Active modulation of the power
- Low voltage protection (cell or pack) $\pm 1\%$ to $\pm 0.1\%$
- Temperature compensation with the possibility of temperature and
- Large capacity

Applications

- Power tools and power drill
- High voltage applications
- Energy management
- Storage and power drill
- Energy management and battery
- High voltage applications
- All types of applications
- Low voltage applications
- 1.5V
- Made in the EU

The SPH meets all safety, quality, safety and environmental standards

- RoHS, REACH, CE, UL, IEC, ISO 9001
- RoHS, REACH, CE, UL, IEC, ISO 9001
- CE, REACH, CE, UL, IEC, ISO 9001

Typical applications

- Power tools and power drill
- High voltage
- Energy management
- Storage and power drill
- High voltage applications
- Energy management and battery
- High voltage applications

Electronic mode (SPH): Cell		Value		
Cell voltage protection (cell or pack)	$\pm 1\%$ to $\pm 0.1\%$	$\pm 1\%$ to $\pm 0.1\%$		
Cell voltage protection (cell or pack) (optional)	$\pm 0.1\%$ to $\pm 0.01\%$	$\pm 0.1\%$ to $\pm 0.01\%$		
Temperature compensation (optional)	$\pm 1\%$ to $\pm 0.1\%$	$\pm 1\%$ to $\pm 0.1\%$		
Cell voltage protection (cell or pack)	$\pm 1\%$ to $\pm 0.1\%$	$\pm 1\%$ to $\pm 0.1\%$		
Cell voltage protection (cell or pack) (optional)	$\pm 0.1\%$ to $\pm 0.01\%$	$\pm 0.1\%$ to $\pm 0.01\%$		
Temperature compensation (optional)	$\pm 1\%$ to $\pm 0.1\%$	$\pm 1\%$ to $\pm 0.1\%$		
Electronic mode (SPH): Cell		Value		
	Min	Max	Min	Max
Cell voltage protection		$\pm 1\%$ to $\pm 0.1\%$		$\pm 1\%$ to $\pm 0.1\%$
Cell voltage protection (optional)	$\pm 0.1\%$	$\pm 0.1\%$	$\pm 0.1\%$	$\pm 0.1\%$
Cell voltage protection (optional)		$\pm 1\%$ to $\pm 0.1\%$		$\pm 1\%$ to $\pm 0.1\%$
Cell voltage protection (optional)	$\pm 0.1\%$	$\pm 0.1\%$	$\pm 0.1\%$	$\pm 0.1\%$
Cell voltage protection (optional)		$\pm 1\%$ to $\pm 0.1\%$		$\pm 1\%$ to $\pm 0.1\%$
Temperature compensation (optional)		$\pm 0.1\%$		$\pm 0.1\%$
Cell voltage protection (optional)		$\pm 1\%$ to $\pm 0.1\%$		$\pm 1\%$ to $\pm 0.1\%$
Electronic mode (SPH): Cell		Value		
Temperature compensation (optional)		$\pm 0.1\%$		$\pm 0.1\%$
Cell voltage protection		$\pm 1\%$ to $\pm 0.1\%$		$\pm 1\%$ to $\pm 0.1\%$
Cell voltage protection (optional)		$\pm 0.1\%$		$\pm 0.1\%$
Cell voltage protection (optional)		$\pm 1\%$ to $\pm 0.1\%$		$\pm 1\%$ to $\pm 0.1\%$
Cell voltage protection (optional)		$\pm 0.1\%$		$\pm 0.1\%$
Cell voltage protection (optional)		$\pm 1\%$ to $\pm 0.1\%$		$\pm 1\%$ to $\pm 0.1\%$
Temperature compensation (optional)		$\pm 0.1\%$		$\pm 0.1\%$
Cell voltage protection (optional)		$\pm 1\%$ to $\pm 0.1\%$		$\pm 1\%$ to $\pm 0.1\%$
Cell voltage protection (optional)		$\pm 0.1\%$		$\pm 0.1\%$
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