

USER MANUAL

1. Product Info

Product Name: battery protection board

Model: HT-616LOS13A30 HT-616LOS13A50 HT-616LOS13A80 HT-616LPS13A30
HT-616LPS13A50 HT-616LPS13A80

2. MANUFACTURER & EU REPRESENTATIVE INFO

- **Manufacturer:** chengdu heltec energy Technology Co., Ltd
Address:No.16th Chenghong Rd., Chengdu, SiChuan,China.
Email:echo@heltec-bms.com
- **EU Authorized Representative:**Eu Representative:eVatmaster Consulting GmbHEu Representative
Address:CN-Bettinastr.30,60325 Frankfurt am Main,Germany
TEL:0049-6995179070
Email:contact@evatmaster.com

3. Safety & Warnings

Read all instructions before use to ensure safety and prevent damage.

- **Warning:** Children, Keep the device and its cord out of reach of children under 3 years old.

Instructions for Use

13S 30A 50A 80A 3.7V Same Port

Size: 72*55*8mm

Overcharge protection: 4.25v±0.25v

Charging recovery: 4.2V±0.25v

Over-discharge protection: 2.8v±0.25v

Discharge recovery: 3.0v±0.25v

Maximum continuous current: 30A/50A/80A

Peak Current: 90A/150A/240A

Balance current: 80 mA

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Balanced starting voltage: $4.22\text{v}\pm0.25\text{v}$

Charging recovery

Self-consumption: $\leq 35\mu\text{A}$

13S 30A 50A 80A 3.2V Same Port

Size: 72*55*8mm

Overcharge protection: $3.65\text{v}\pm0.25\text{v}$

Charging recovery: $3.55\text{V}\pm0.25\text{v}$

Over-discharge protection: $2.35\text{v}\pm0.25\text{v}$

Discharge recovery: $2.55\text{v}\pm0.25\text{v}$

Maximum continuous current: 30A/50A/80A

Peak Current: 90A/150A/240A

Balance current: 80 mA

Balanced starting voltage: $3.405\text{v}\pm0.25\text{v}$

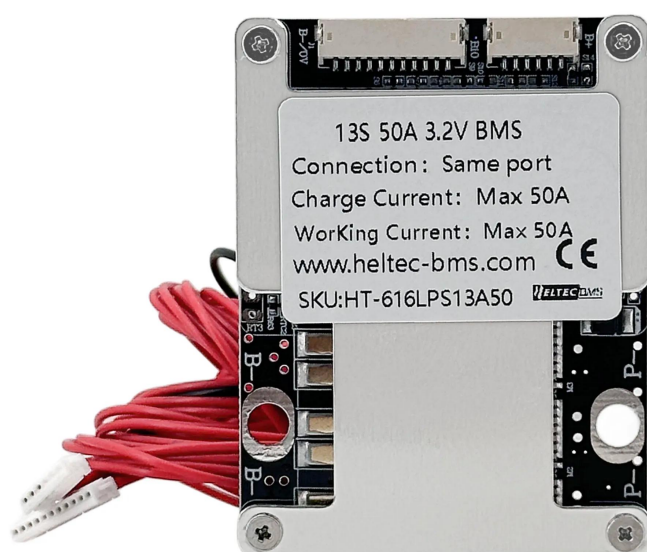
Charging recovery

Self-consumption: $\leq 35\mu\text{A}$

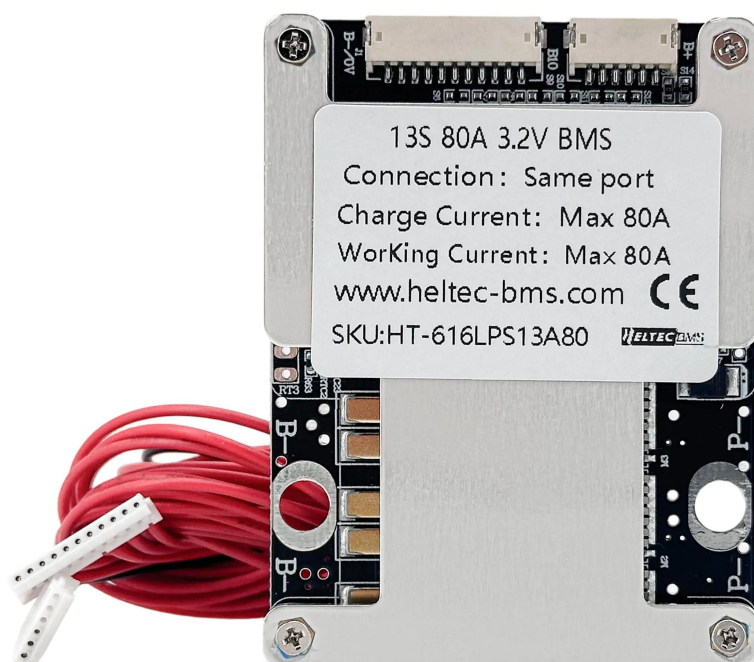
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