Product Presentation

LIBALc-BPU100™

COMPACT BATTERY POWER DISCONNECT

Key advantages

The c-BPU100™ essentially handle 4 key battery functions in one PCB and thus reduce component cost, battery integration cost and significantly reduce battery pack size and complexity

Identical function with
20 times lower volume

c-BPU + c-BMS, volume 400 cm^3

Traditional solution, volume 14.400 cm^3

cBPU key functions

4 functions in one:

- Battery Power disconnect in charge and discharge
- Current measurement sensor
- Auto-off function
- On board DC/DC power supply

WE MAKE BATTERIES WORK!

Core value

Simplicity in design

- Fewer components
- Easy to install

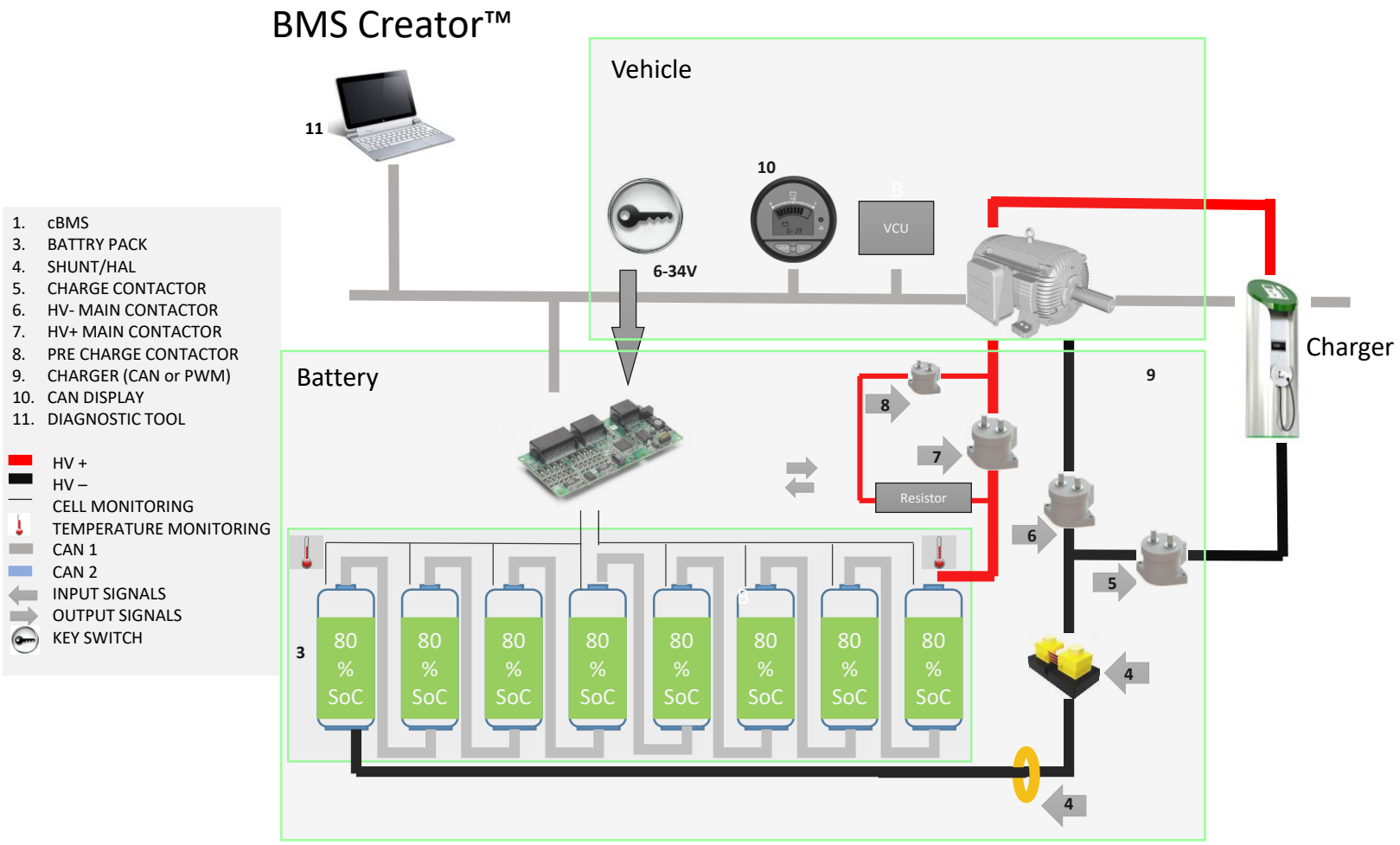
Compactness

- Size: 150 x 70 x 20 mm
- Weight: 100g

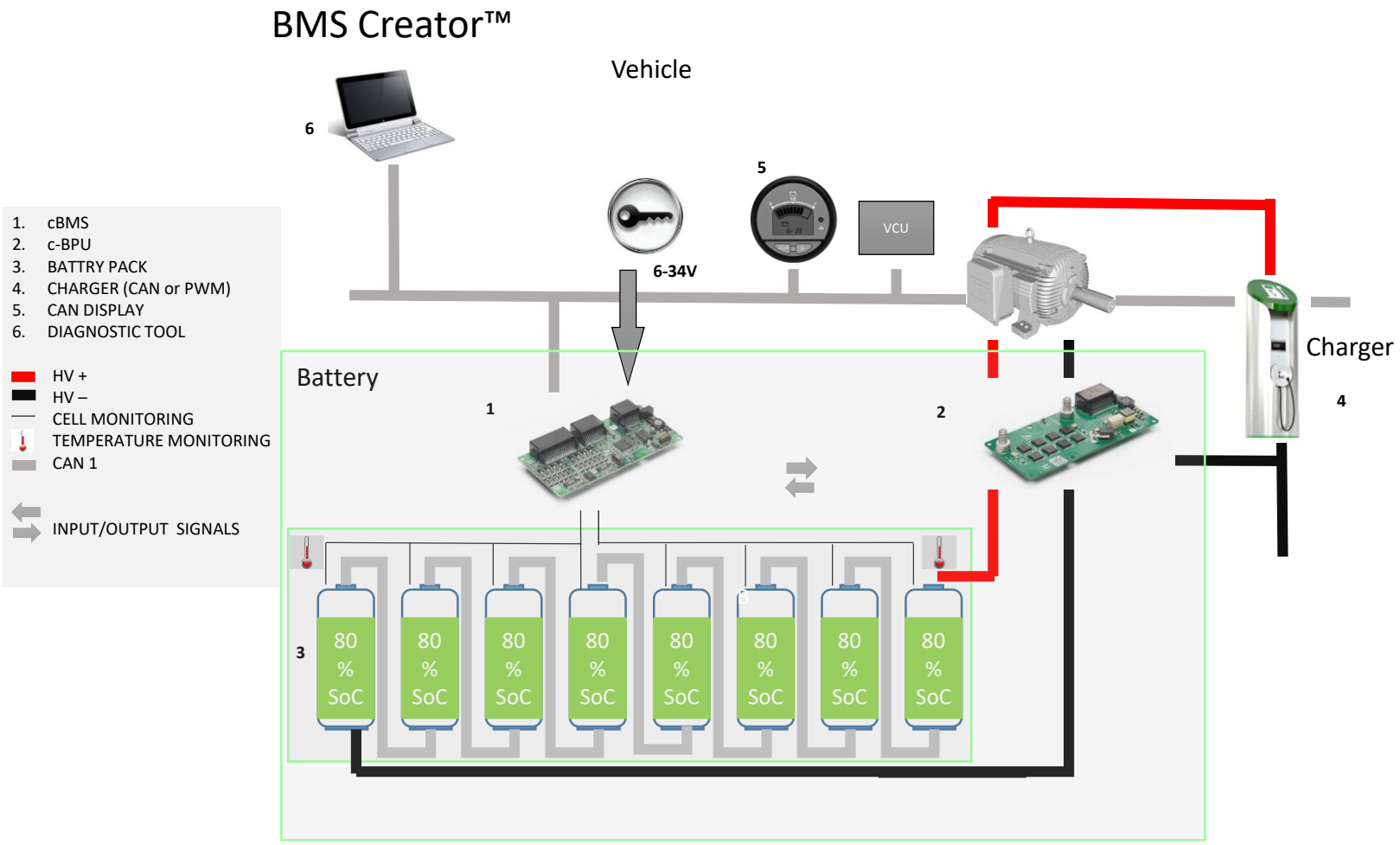
System Cost

- Conventional design: INDEX 100
- C-BPU with c-BMS: INDEX 90

Conventional System



System with c-BPU



Use cases

Compact robot battery for STOW (Belgium)

- Keep footprint and increase battery capacity

3-wheeler delivery truck for Delhi based Euler Motor

- Reduce cost
- Reduce footprint
- Remove complexity

Specifications

PARAMETERS	SPECIFICATIONS
Maximum battery pack voltage	95 V
Minimum battery pack voltage	13 V
Isolated DC/DC 12V output (for BMS)	YES
AUX DC/DC output (for other use)	YES (25 mA)
DC/DC shut-off functionality (Auto-off supported)	YES
Galvanic isolation (Bat to µProcessor)	YES
Maximum Current (Continuous)	100 A
Maximum Current (MAX pulse in 10 seconds)	200 A
Current measurement (Hall sensor)	200 A
Current accuracy	1 % (0-200A)
Bi-direction currents protection	YES
Switch off (open 'contactor') time	0.5 – 1.0 ms
Internal on-board temperature sensor	2
Dimensions	170 x 50 x 20 mm
Weight (w/o heat sink)	90 – 100 g
SOC accuracy with c-BMS	±0,5%
Sleep mode consumption	48 mW