

Portfolio of CCS (Cell Contacting System)

Mass-produced
product
&
Under
development

- Connects battery cells and modularizes the battery
- Individually detects the state of each battery cell to enable battery control

Background or assignment

Provides low height, integrated, compact, and light CCS for batteries in electric vehicles with increasing capacities and densities

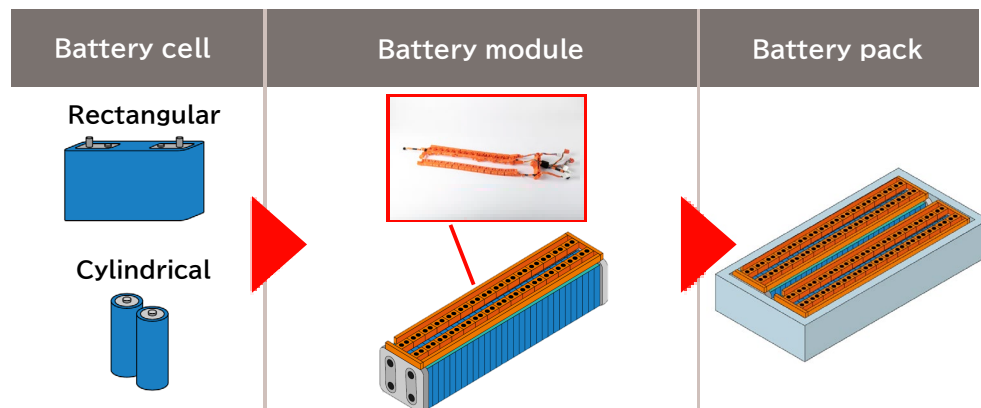
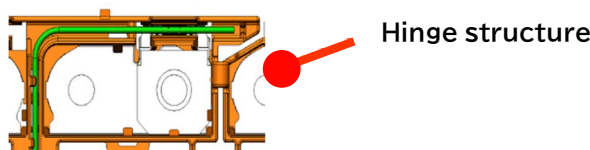
Solutions to Challenges

CCS Wire Type

Features

Mass-produced
product
Installed
in 1997

- Compatible with various types of battery cells such as rectangular and cylindrical types
- Hinge structure absorbs variation due to expansion/shrink of battery cells

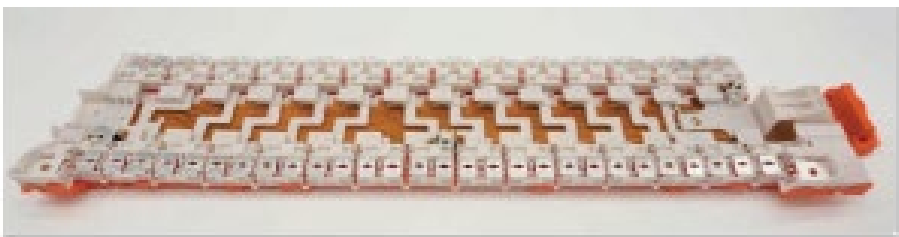


CCS FPC Type

Features

Mass-produced
product
Installed
in 2022

- Reduces the number of parts and weight by 50% compared to conventional YAZAKI products
- Ensures stable product quality by using automated production
- Directly implements electronic parts to FPCs

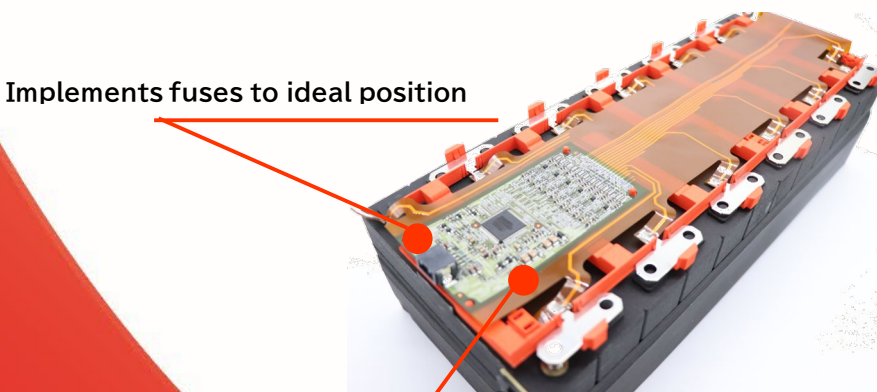


CCS with Cell Voltage Sensor FPC Type

Features

Under
development
Mass production
possible in 2028

- Saves space by integrating functions
- The best layout of fuses, thermistors, and circuit areas
- Directly implements electronic parts



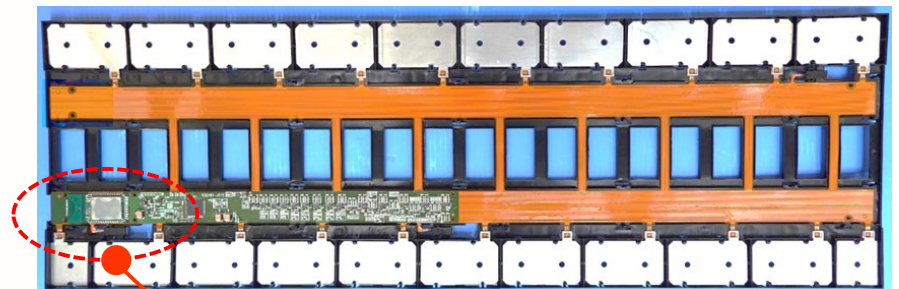
Embeds thermistor detection circuit into FPC

Wireless CCS

Features

Under
development
Mass production
possible in 2029

- Turns wire harness connection into wireless for battery module
- Saves space by eliminating wire harnesses



Wireless module