

# Battery Busbar Module (BBM) Portfolio

## Function

- Connect battery cells for modularization
- Detect the state of each individual battery cell to enable battery control

## Suggestion

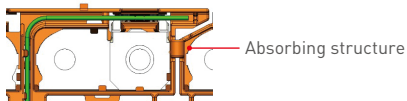
- Provide low height, integrated, compact, and lightweight BBM for batteries in electrification vehicles, whose capacities and densities are increasing

## Wire Type Battery Busbar Module

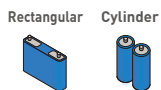
Mass-production

### Feature

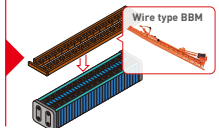
- Develop and produce BBM for various types of battery cells such as rectangular and cylinder
- The absorbing structure suppresses variation due to expanding / shrinking battery cells



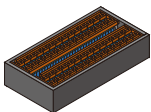
### Battery Cell



### Battery Module



### Battery Pack



## FPC Type Battery Busbar Module

Mass-production

### Feature

- Reduce part numbers and weight  
Reduce 50% weight than conventional Yazaki products
- Ensure stable product quality by automatic production  
No wrong assembly and low failure risk due to printed technology
- Directly implement electronic parts to FPC

## FPC Type Battery Busbar Module with Cell Voltage Sensor

Developing

### Feature

- Saving space and height reduction by integrated functions
- The best layout of fuses, thermistors and circuit areas
- Directly implement electronic parts

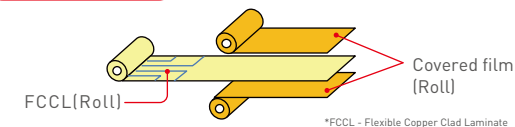
## Long FPC Battery Busbar Module

Developing

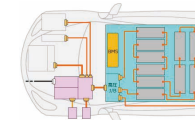
### Feature

- Various size of FPC can be produced with a same equipment in Roll to Roll process

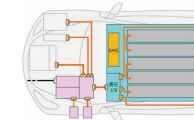
Roll to Roll Process | Put FCCL\* → Paste cover lay → Test



- Available large capacity of battery



#of BBM: 11 BBMs  
BBM length: About 500mm



#of BBM: 5 BBMs  
BBM length: 1200 to 1800mm