

Switching Series-Parallel Battery Junction BOX (Mechanical Relay Type / Semiconductor Relay Type)

In-developing

- Charging even different voltages between an automotive battery and a charging infrastructure
- Detective functions for welding relays

Need actions for charging of 800V BEV with existing 400V rapid charger which are mostly dominated.



Feature

1

Switching between series and parallel batteries allows charging of 800V BEV with existing 400V rapid chargers.

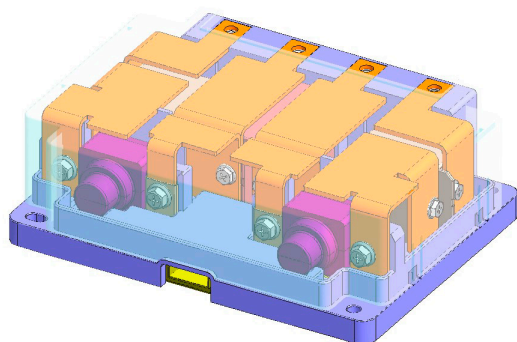
2

Reduce size by high efficiency air / water cooling for large current

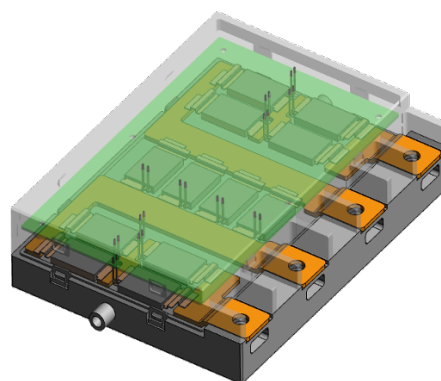
3

Reduce size by relay semiconductor

Performance/Specification



Mechanical Relay Type



Semiconductor Relay Type

[Target Specification]

| | |
|--------------|---------------------------------------------|
| Max. voltage | (1) Series 1000V (Rapid charging at 350kW) |
| | (2) Parallel 500V (Rapid charging at 150kW) |
| Max. current | (1) 500A continuous |
| | (2) 300A continuous |
| Size | Mechanical Relay Type 200×270×85mm |
| | Semiconductor Type 220×170×60mm |