

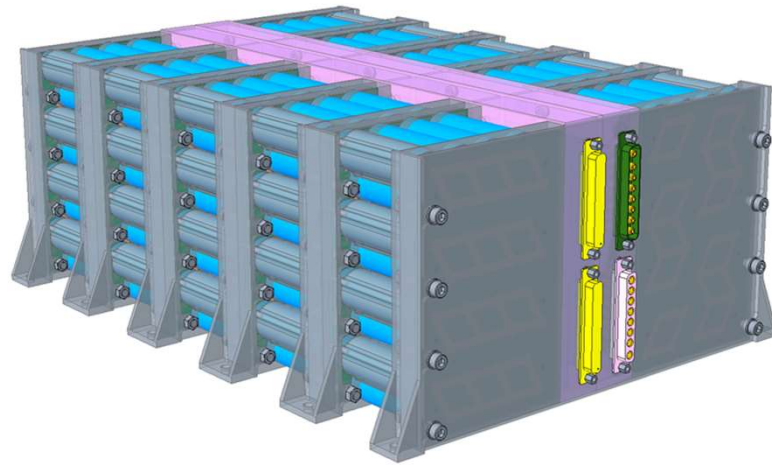
# Lithium-Ion Batteries (LIB)

## Development of COTS-grade cell (18650/21700) Battery

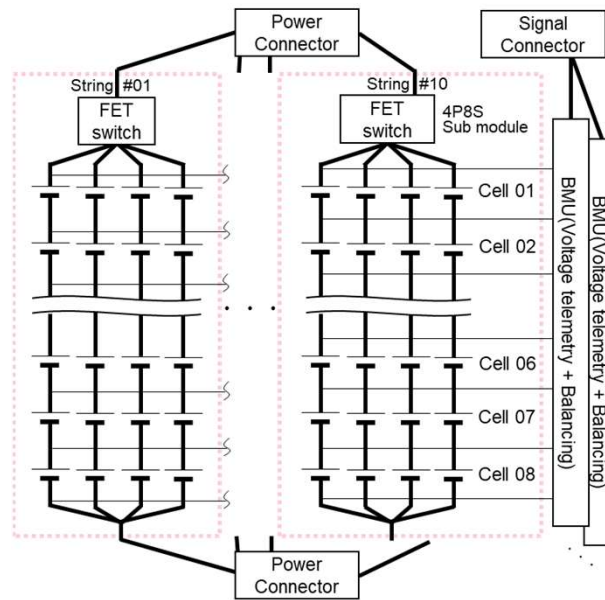
### Concept Design

### Major Characteristics of 40P8S COTS-grade Cell Battery

Property	Suggested Performance
Number of cells per module	40 cells connected in parallel and 8 in series (4P8S sub-module x 10 strings)
Energy	5184[Wh] nom.
Heater	Installed if required
Temp. sensor	Installed if required
Telemetry	Voltage / control status
Failure protection	Disconnection of string by FET switch
Mass	Less than 35.0kg
Dimensions	W315xL435xH165[mm] (Nom.)



**Battery Module**  
 [10 Strings of 4P8S Sub-Modules  
 + Connector Box]  
 (40P8S cells, total 320 cells)



**Electrical Connection Diagram**

**40P8S Battery Module**  
 Composed of 21700-type cells