

# ERNI & DYNAMIC BATTERY CONNECTIVITY SOLUTIONS

TE Connectivity (TE), with its ERNI and Dynamic product brands, offers multiple value add products to fit the needs of Battery and Energy Storage Systems (BESS) both in a stationary and mobile environment. Whether it is a large stationary BESS station or small mobility battery pack at the cell and module level we see are a high standardization of the components. TE's Board Connectivity products helps enable miniaturized connectivity in the module and the high voltage measurements requirements in the Battery Management System. These products may also serve in a mobile battery environment, such as in an Electrical Vehicle (EV), in adjacent applications as Inverter Onboard Charger, or as the Battery Disconnect Unit in EVs.

## END APPLICATIONS



POWER GENERATION



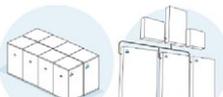
POWER TRANSMISSION

BESS STATION >1MW



POWER CONSUMPTION

FACTORY/COMMERCIAL BESS 50KW - 500KW

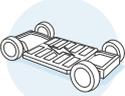


RESIDENTIAL BESS <10KW



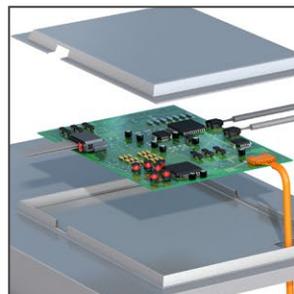
POWER MOBILITY

MOBILITY BATTERY PACK 30KW - 100KW

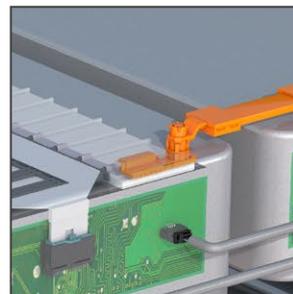


## ECOSYSTEM

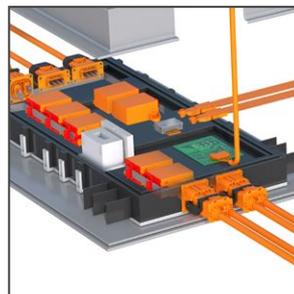
BATTERY SYSTEM MORE THAN JUST A CELL



BATTERY MANGEMENT CONTROLLER



CELL TO MODULE SIGNAL



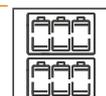
BATTERY DISCONNECT UNIT



INTEGRATED MODULE CONTROLLER

- › Measure voltage & temperature at the cell
- › Steer Module controller from cell inputs
- › Steer Modules as a system

## BOARD APPLICATIONS



BATTERY CtoS (CELL TO SYSTEM)  
Measure Voltage & Temperature at the cell



BATTERY MANAGEMENT SYSTEM (BMS)  
Steer Modules as a system



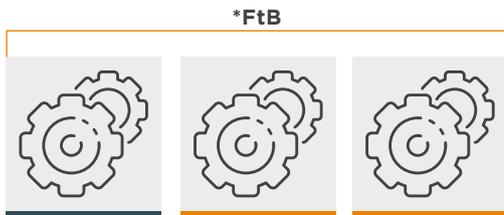
eDRIVE / BATTERY DISCHARGE UNIT ELECTRONICS (INVERTER, OBC BDU)  
Steer the eMotor in mobility

# ERNI & DYNAMIC CONNECTOR PORTFOLIO

Low Voltage Miniaturized Signal (0.5mm–2.0mm) \*WtB/WtW/FtB/BtB  
\*WtB



Low Voltage Miniaturized Signal  
(0.5mm–2.0mm) \*FtB



Low Voltage Signal (2.0mm–5.0mm) \*WtB/FtB



High Voltage Signal >600V \*WtB/WtW



High Power \*WtB/WtW/B2B



■ Full LV214 Qualification  
 ■ Partial LV214 / USCAR 2 Qualification  
 ■ Not specific Automotive certification  
 \* WtB-Wire to board / WtW-Wire to wire / FtB-Foil to board / BtB-Board to Board / BbtB-Busbar to Board  
 Product under development

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