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Supplement

## Supplementary material

Tan-Thich Do et al (2025)

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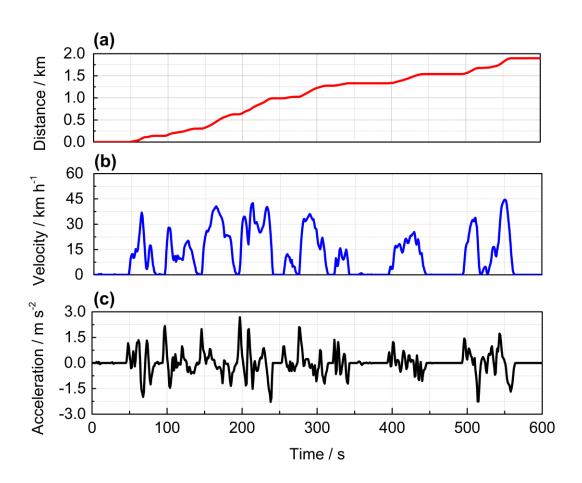


Fig. S1 The NYCC driving cycle test characteristics: (a) Distance; (b) Velocity; and (c) Acceleration

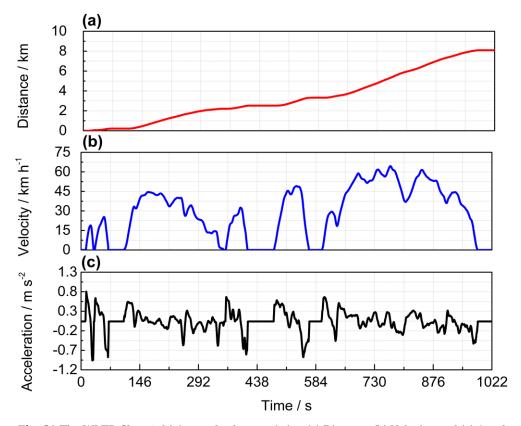


Fig. S2 The WLTP Class 1 driving cycle characteristics: (a) Distance; (b) Velocity; and (c) Acceleration

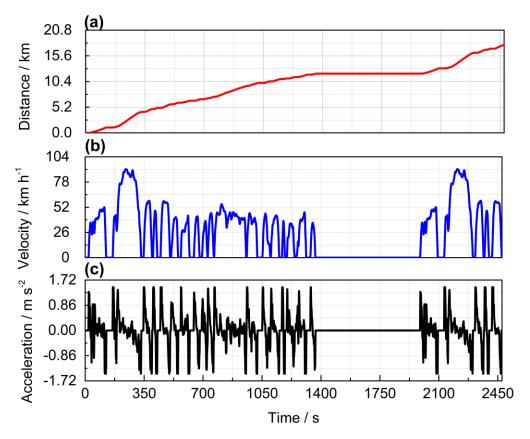


Fig. S3 The FTP-75 driving cycle characteristics: (a) Distance; (b) Velocity; and (c) Acceleration

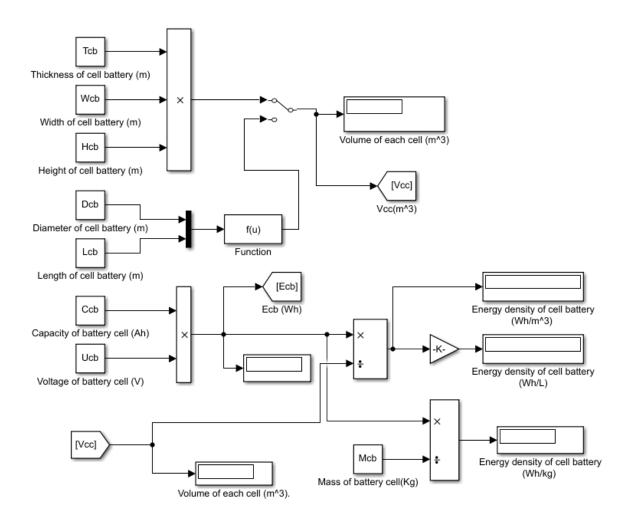


Fig. S4 Modeling the dimensional parameters of the cell battery

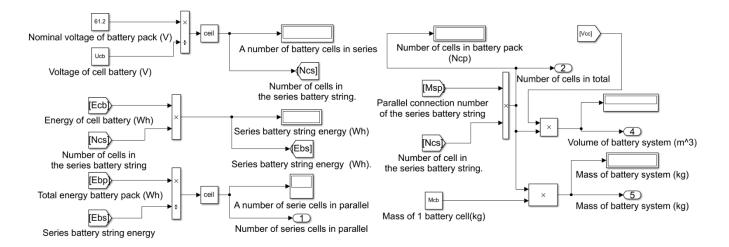


Fig. S5 Modeling the number of cells in strings, volume, and mass of the battery

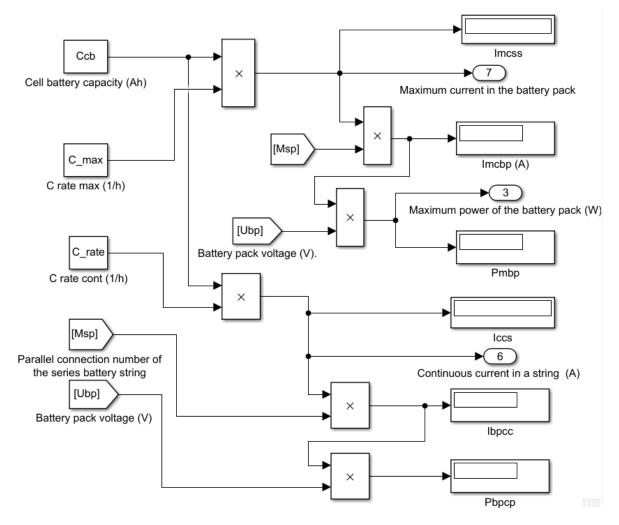


Fig. S6 Modeling the designed battery pack with a high voltage system

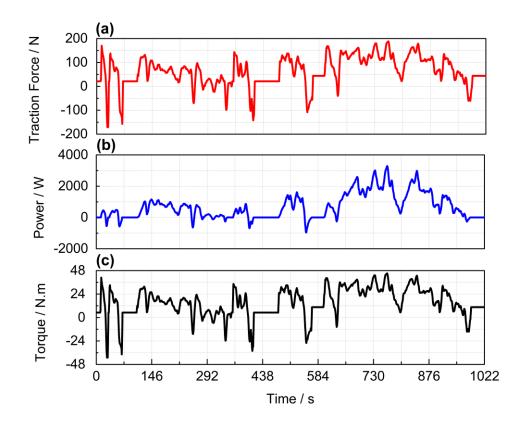


Fig. S7 Electric motorcycle dynamic performance under WLTP Class 1 driving cycle test: (a) Traction force; (b) Power; and (c) Torque

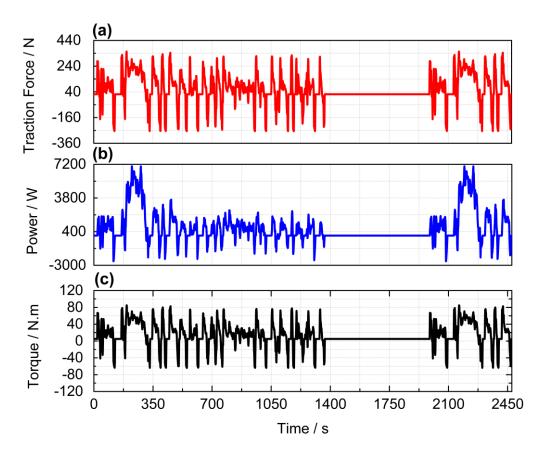


Fig. S8 Electric motorcycle dynamic performance under FTP-75 driving cycle test: (a) Traction force; (b) Power; and (c) Torque