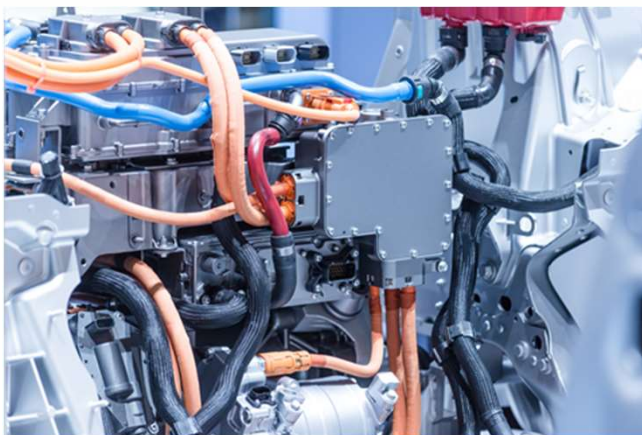
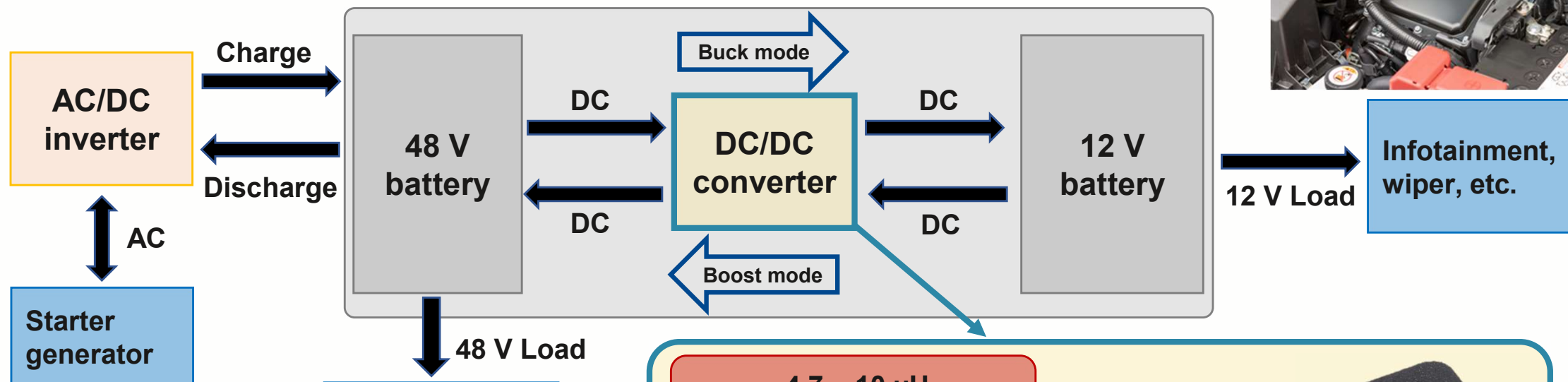


① Multi-Phase Bidirectional Buck-Boost Converter for 12 V / 48 V System

System image



4.7 ~ 10 μ H
30 A or more per phase

Example: 4 phase (120 A)

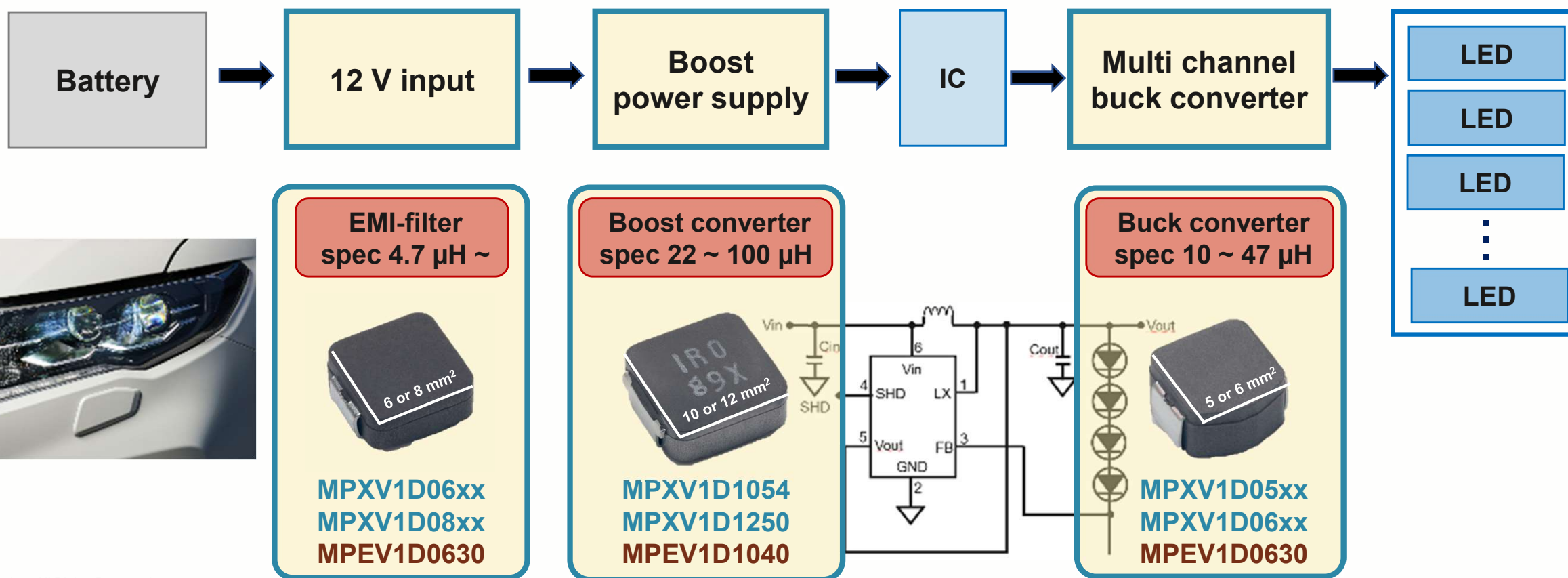
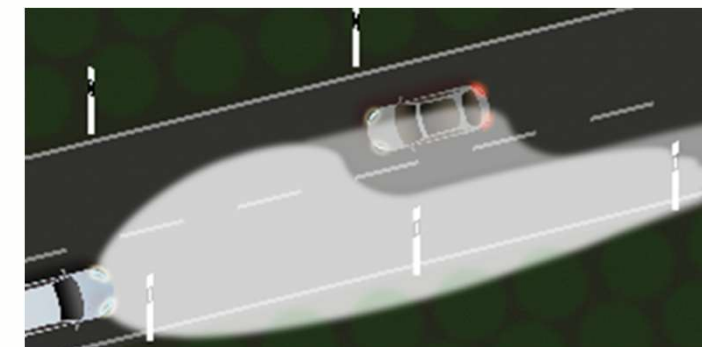
MPXV1D12xx solutions for size reduction

MPXV1D1770
MPXV1D2213 solutions for quantity reduction

② Adaptive Driving Beam (ADB) Headlamp System (LED Head-Lighting)

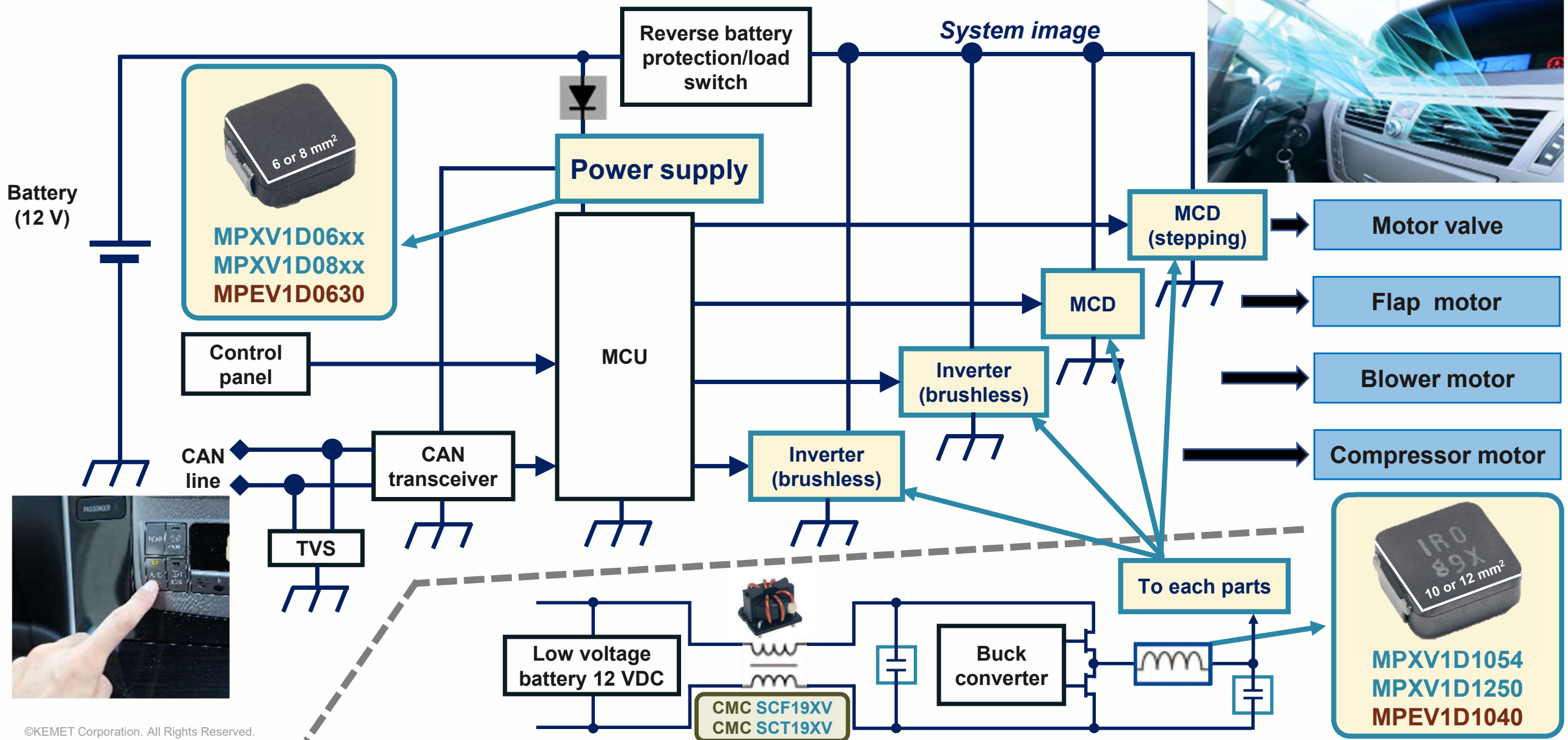


System image

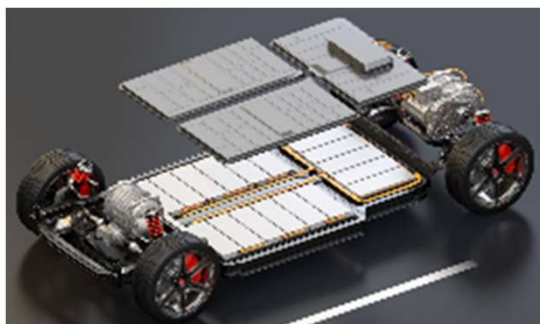


③ Heating Ventilation and Air Conditioning (HVAC)

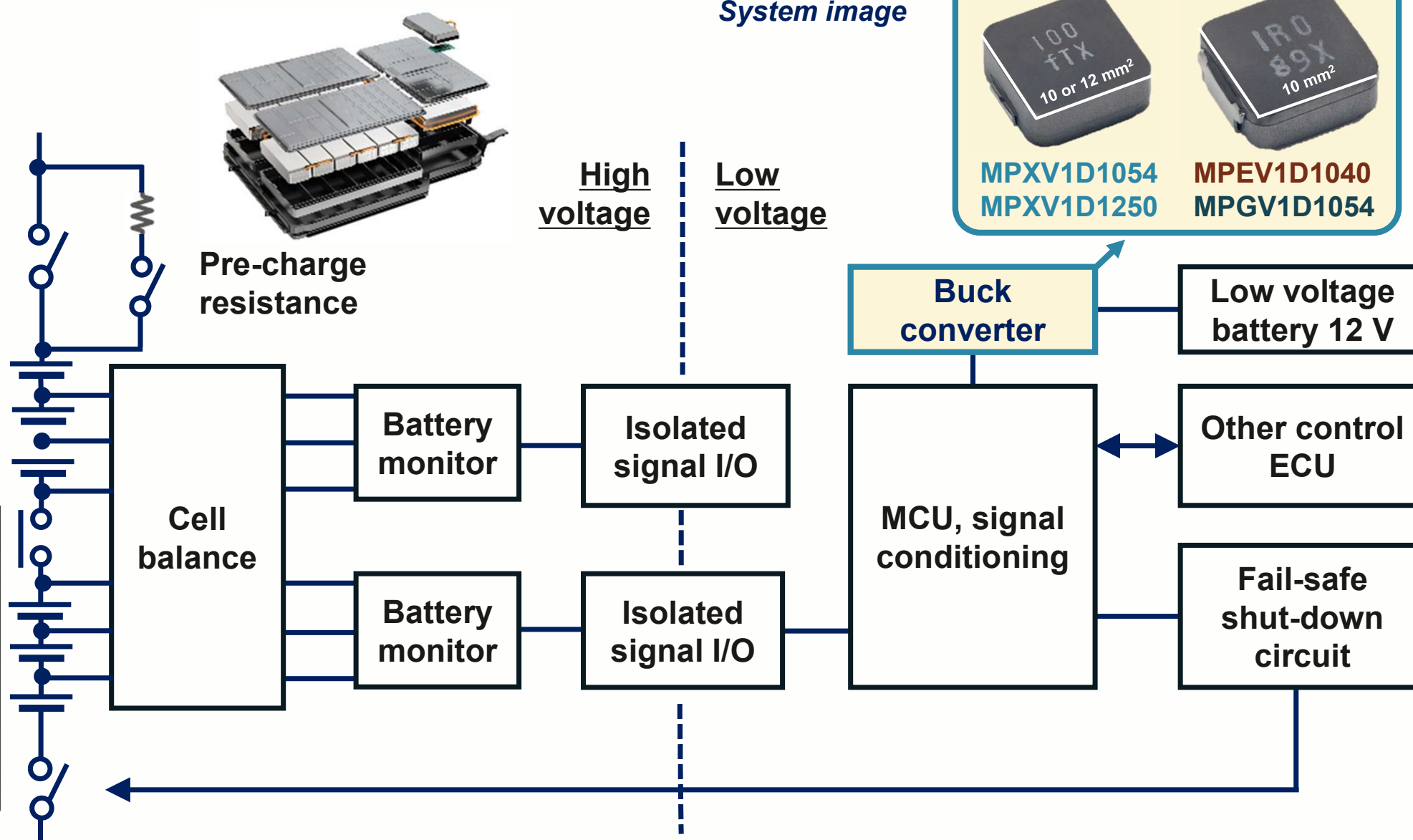
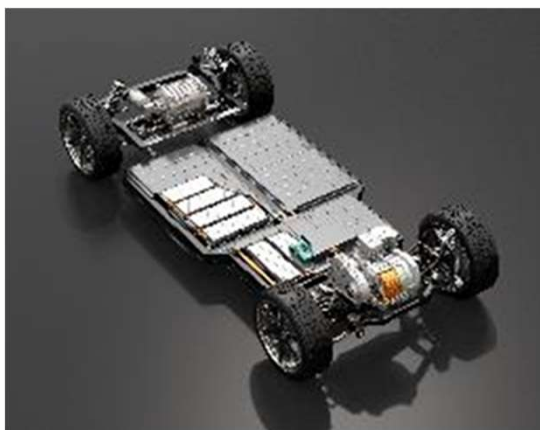
MCD: Motor control driver



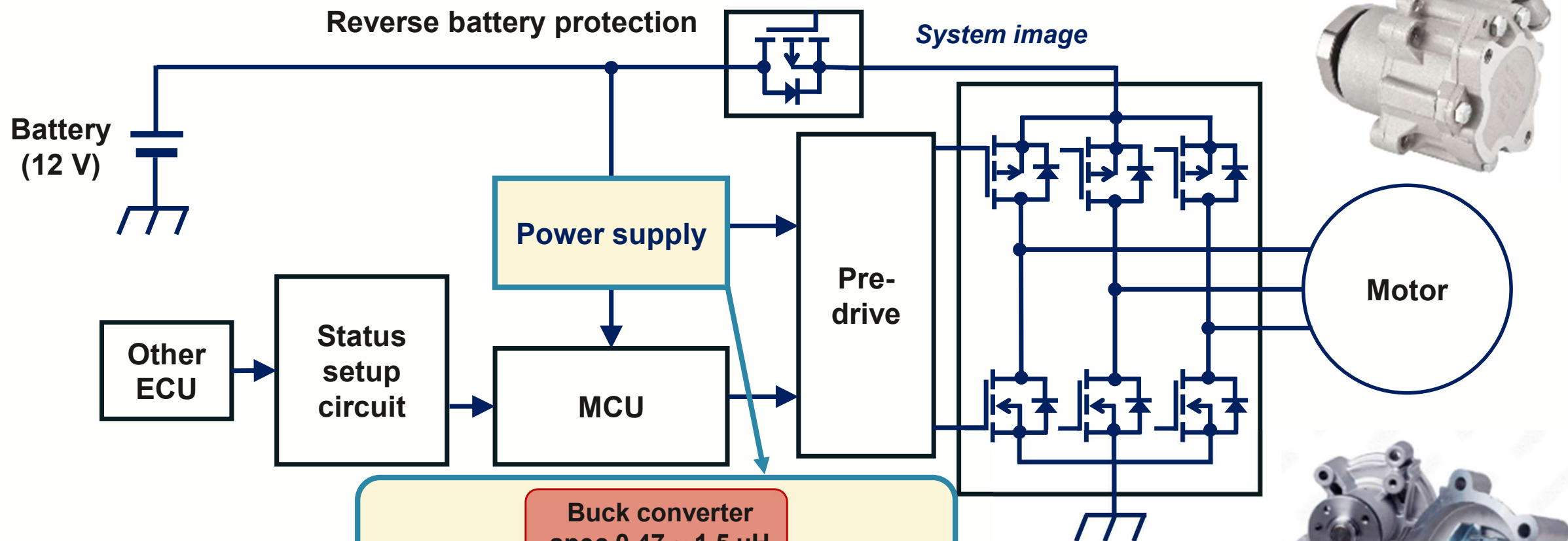
④ Battery Management System (BMS)



EV/HEV battery
200 ~ 800 V



⑤ Electric Oil Pump & Water Pump

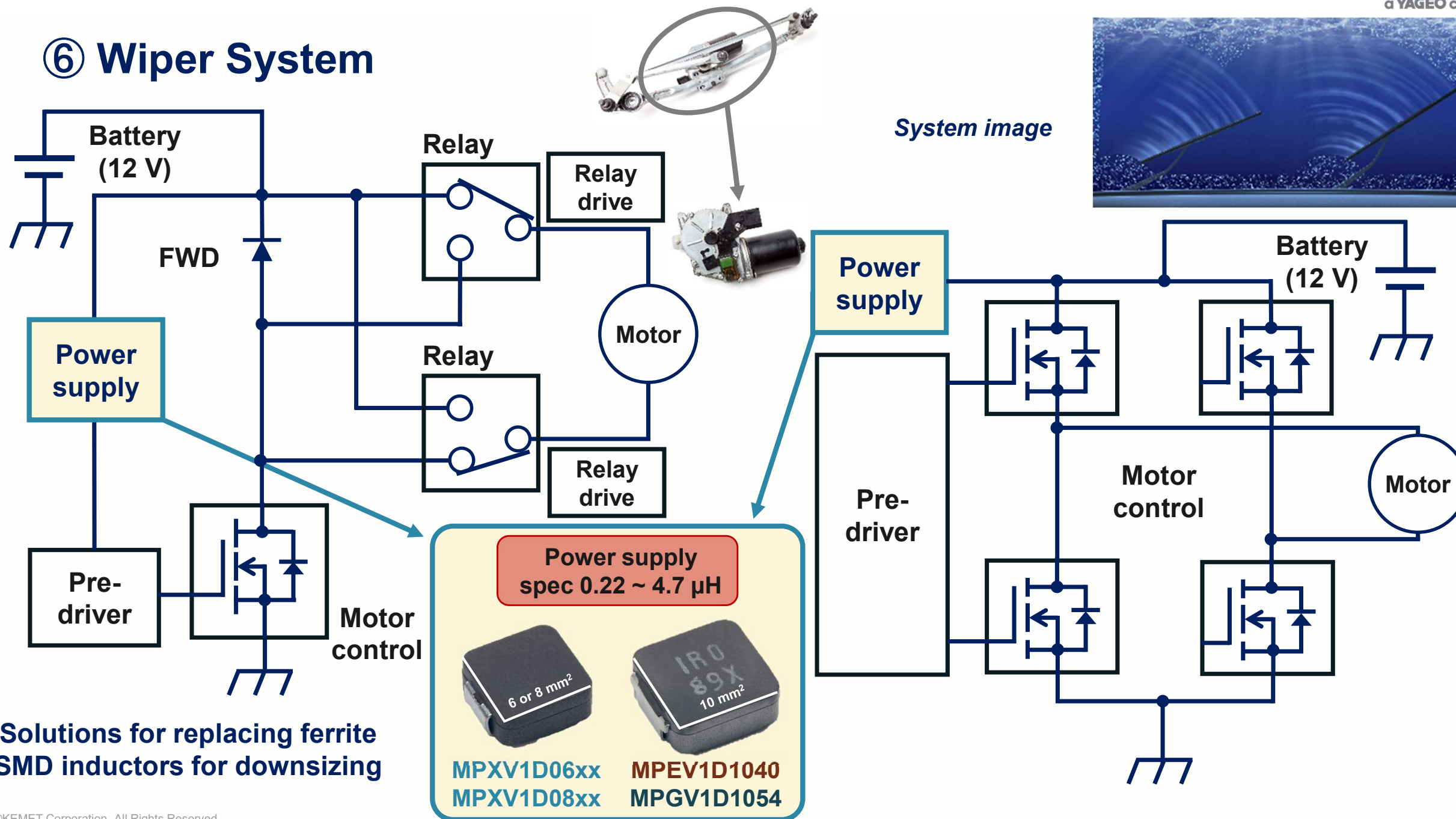


- Input filter requires low DCR
- **MPCV** series recommended
 - **Advantage: flat wire**

Buck converter spec 0.47 ~ 1.5 μ H

		
MPCV1060 MPCV1260	MPXV1D10xx MPXV1D12xx	MPEV1D1040 MPGV1D1054

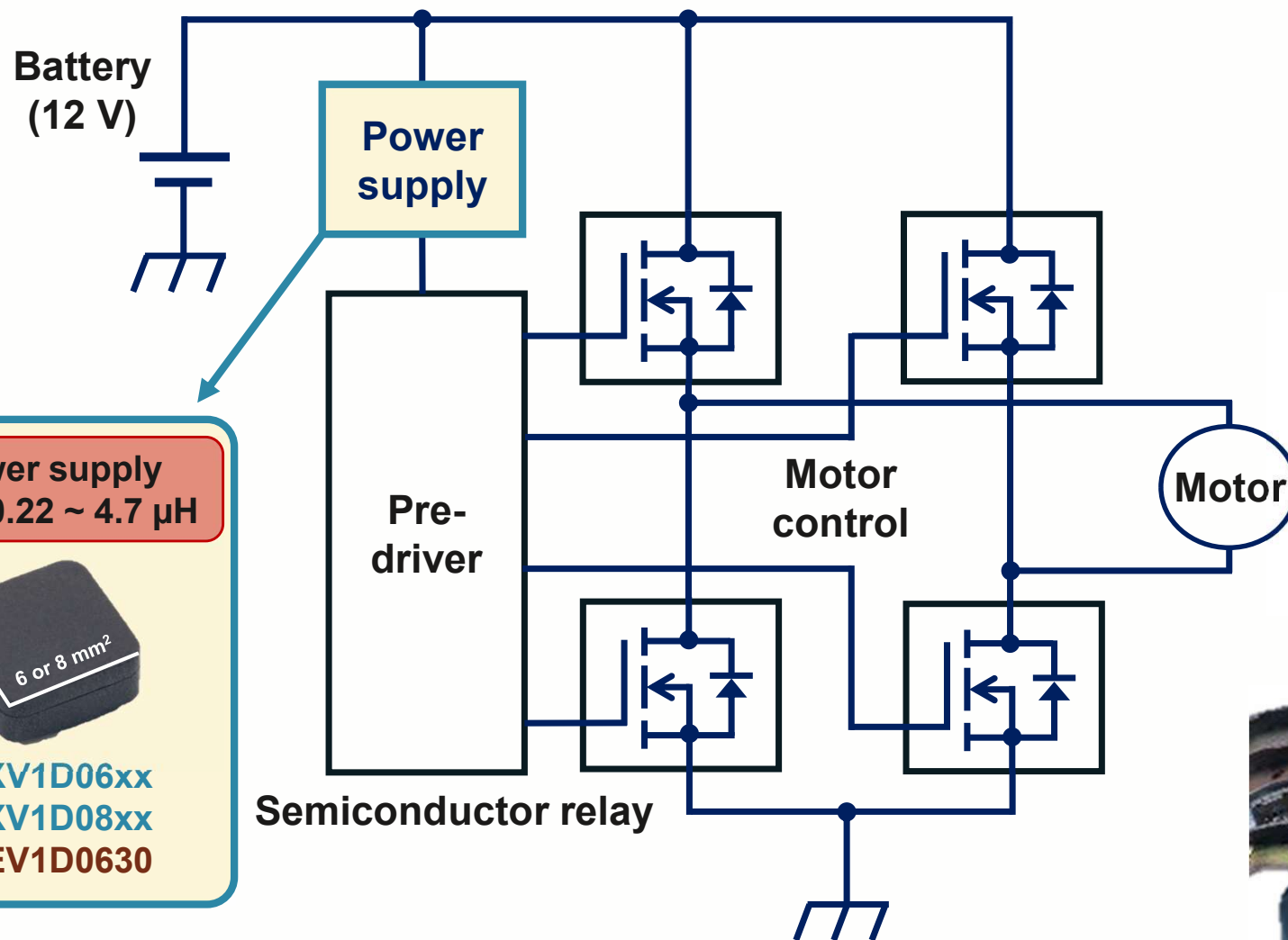
⑥ Wiper System



Solutions for replacing ferrite SMD inductors for downsizing

⑦ Electric Parking Brake (EPB)

System image

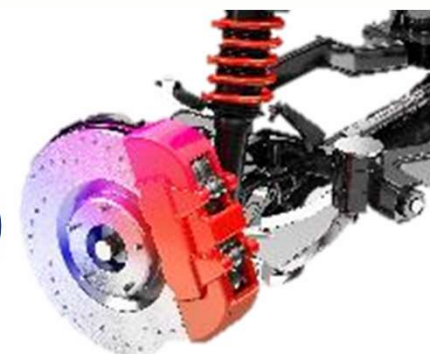


Power supply spec 0.22 ~ 4.7 μ H

6 or 8 mm²

MPXV1D06xx
MPXV1D08xx
MPEV1D0630

* Disk brake caliper



* Drum brake



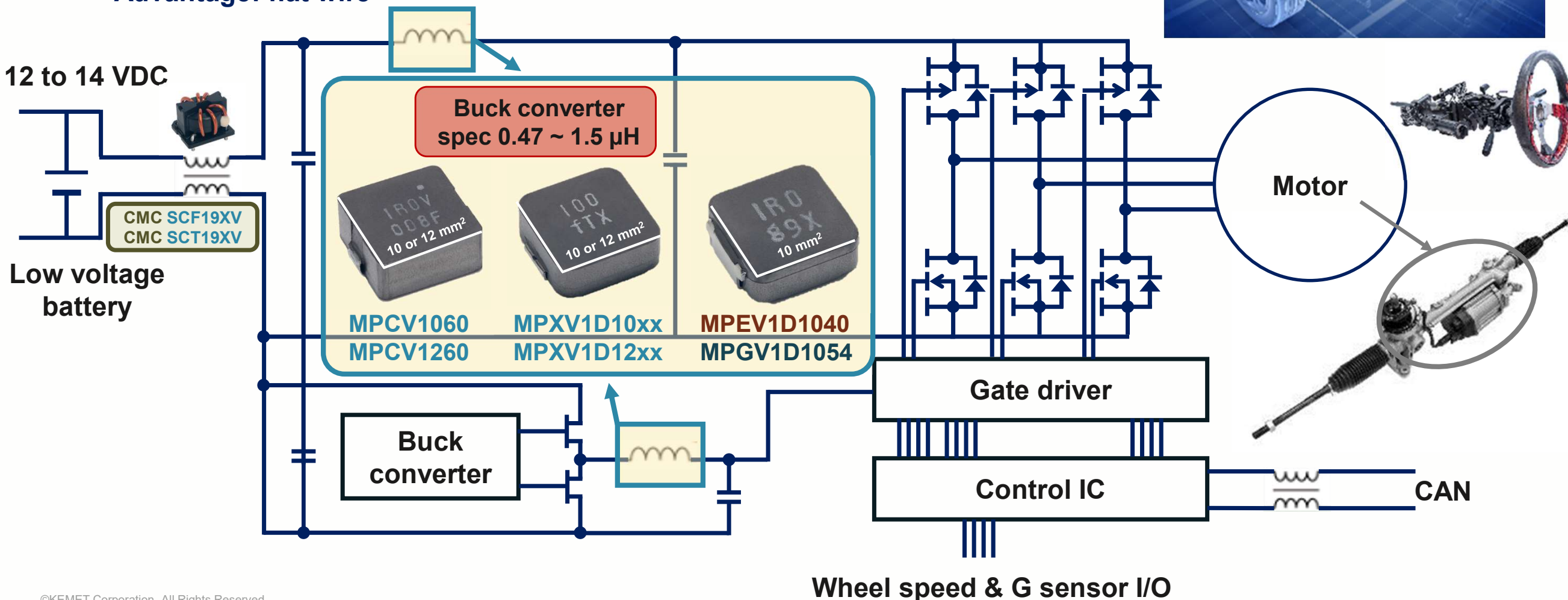
⑧ Electric Power Steering (EPS)

Input filter requires low DCR

- **MPCV** series recommended
- Advantage: flat wire

Solutions for size reduction

System image



⑨ Head Up Display (HUD)

Power supply spec 1 ~ 10 μ H



5 or 6 mm²

MPXV1D05xx
MPXV1D06xx
MPEV1D0630



System image



Display

