

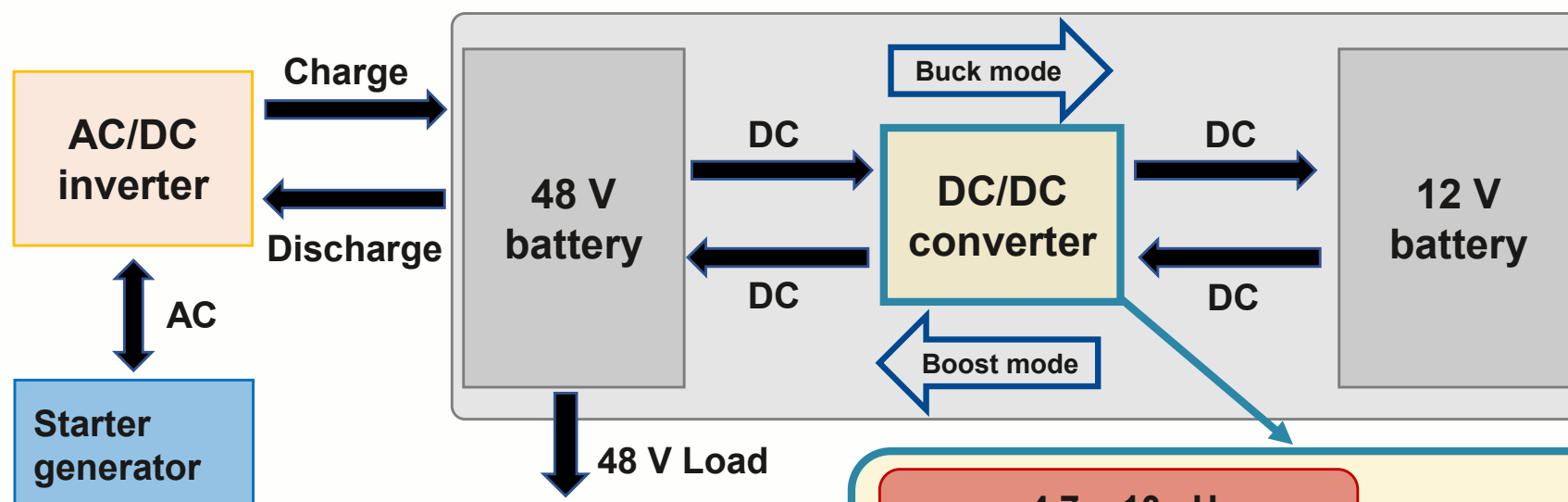
① Multi-Phase Bidirectional Buck-Boost Converter for 12 V / 48 V System

System image



Infotainment,
wiper, etc.

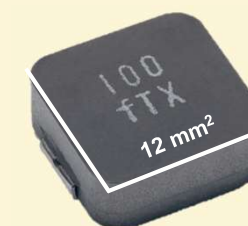
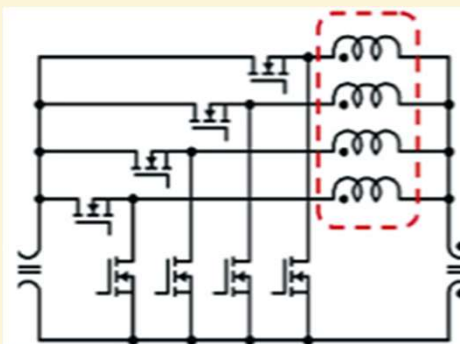
12 V Load



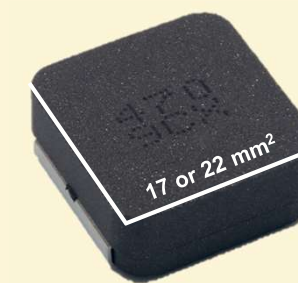
Air compressor,
EPS, pump, etc.

4.7 ~ 10 μ H
30 A or more per phase

Example: 4 phase (120 A)



MPXV1D12xx
solutions for
size reduction

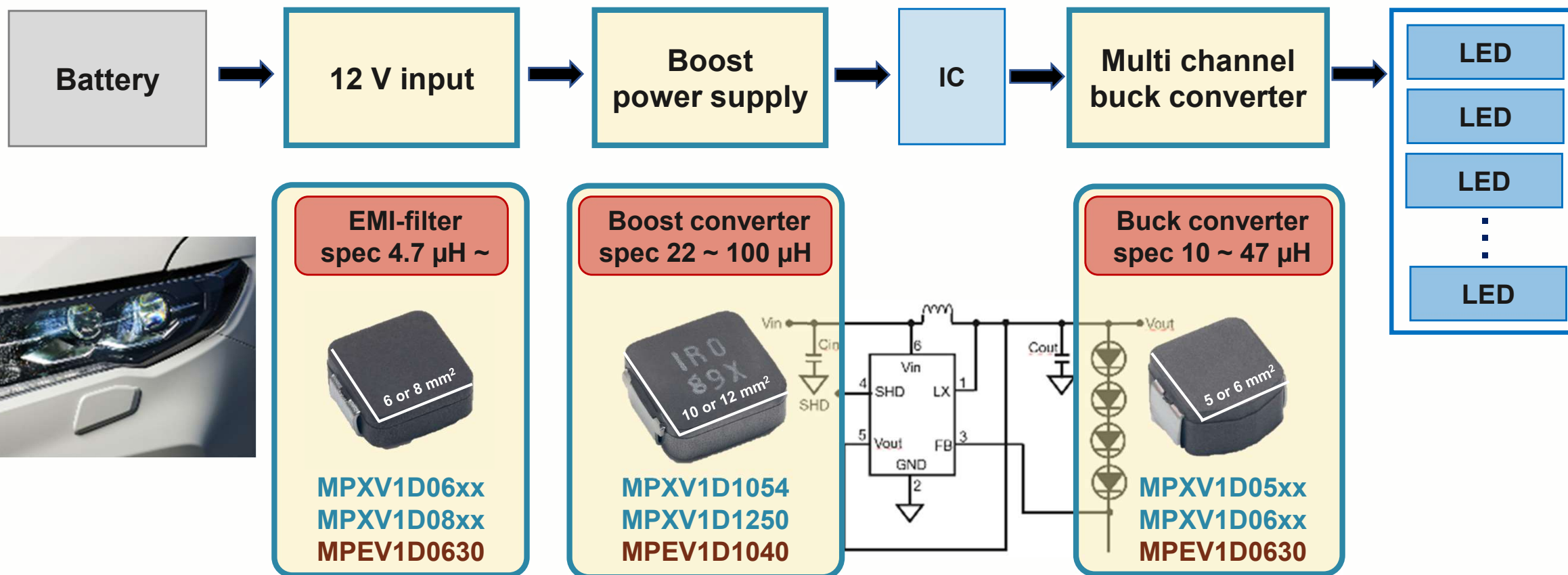
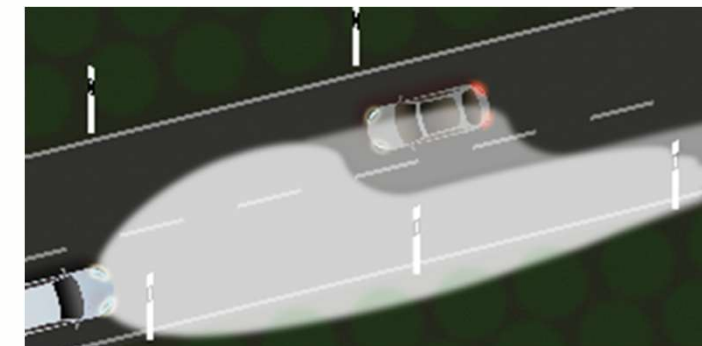


MPXV1D1770
MPXV1D2213
solutions for
quantity reduction

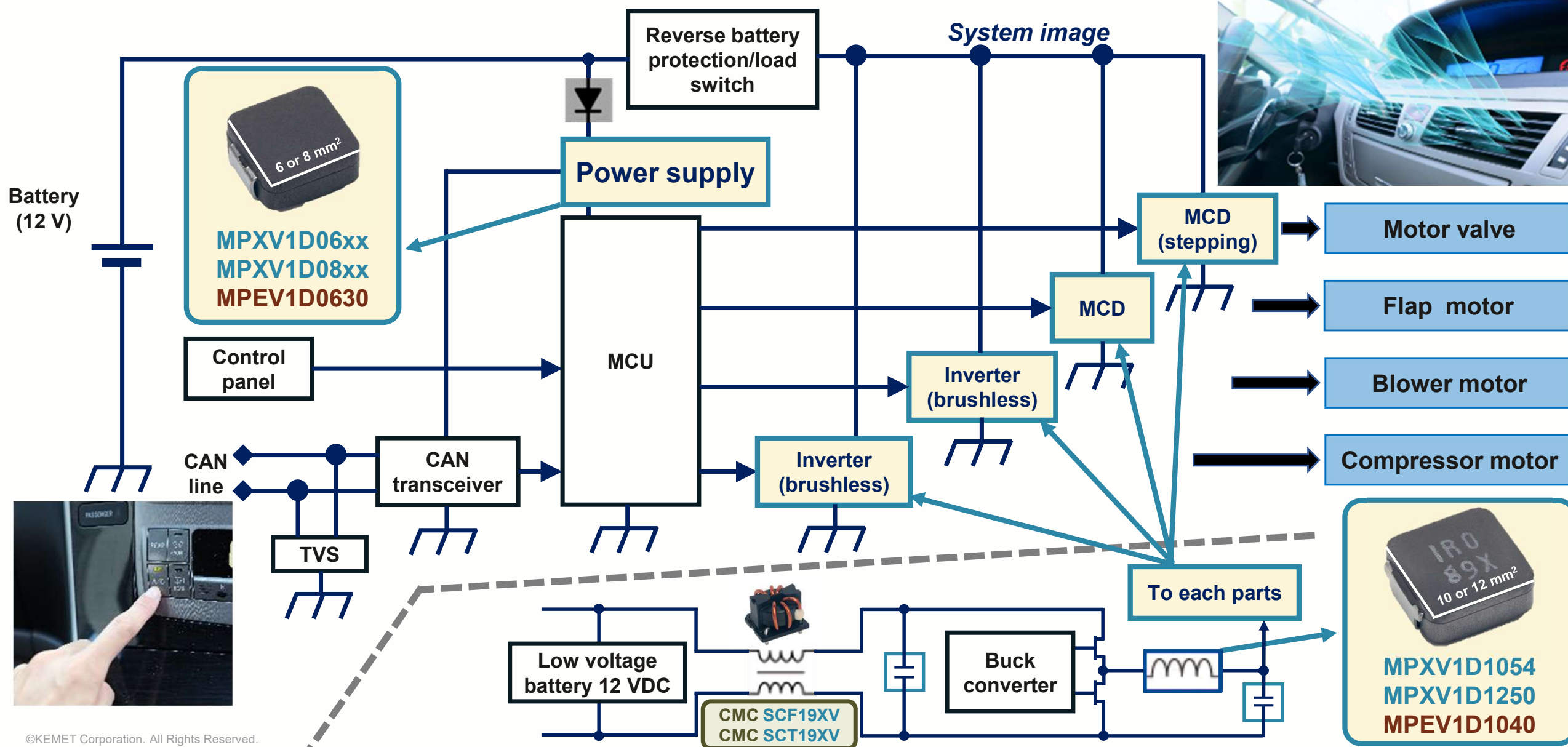
② Adaptive Driving Beam (ADB) Headlamp System (LED Head-Lighting)



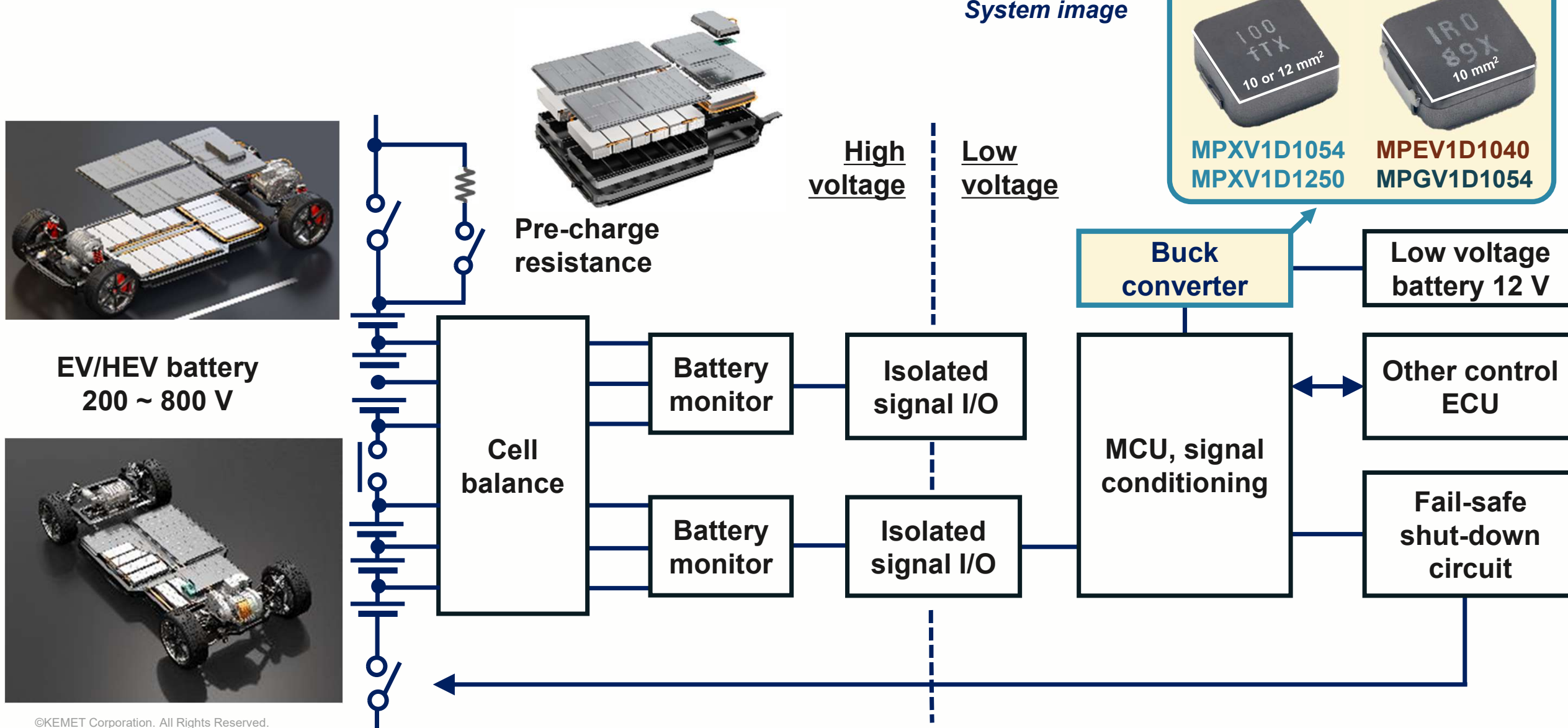
System image



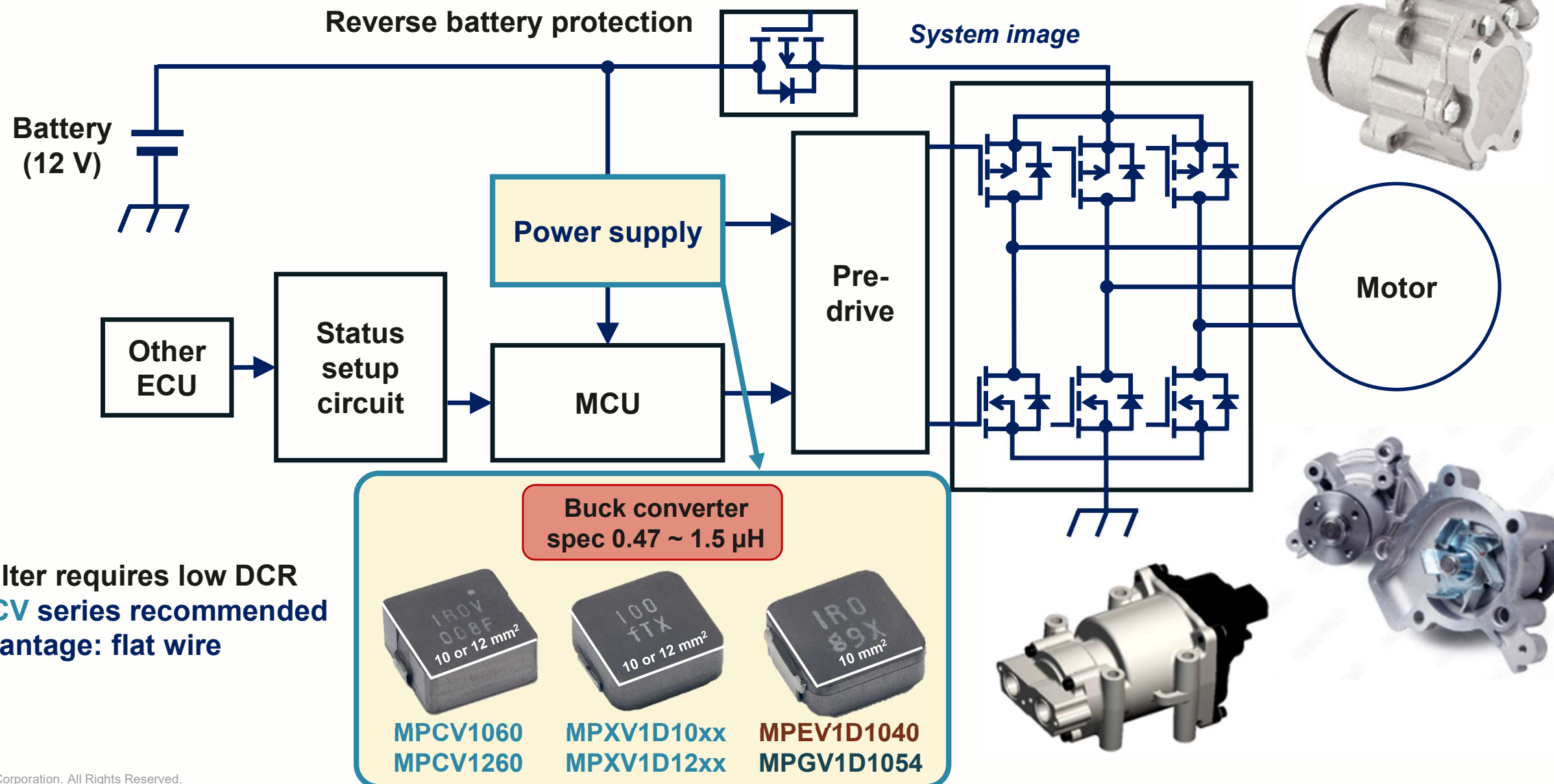
③ Heating Ventilation and Air Conditioning (HVAC)



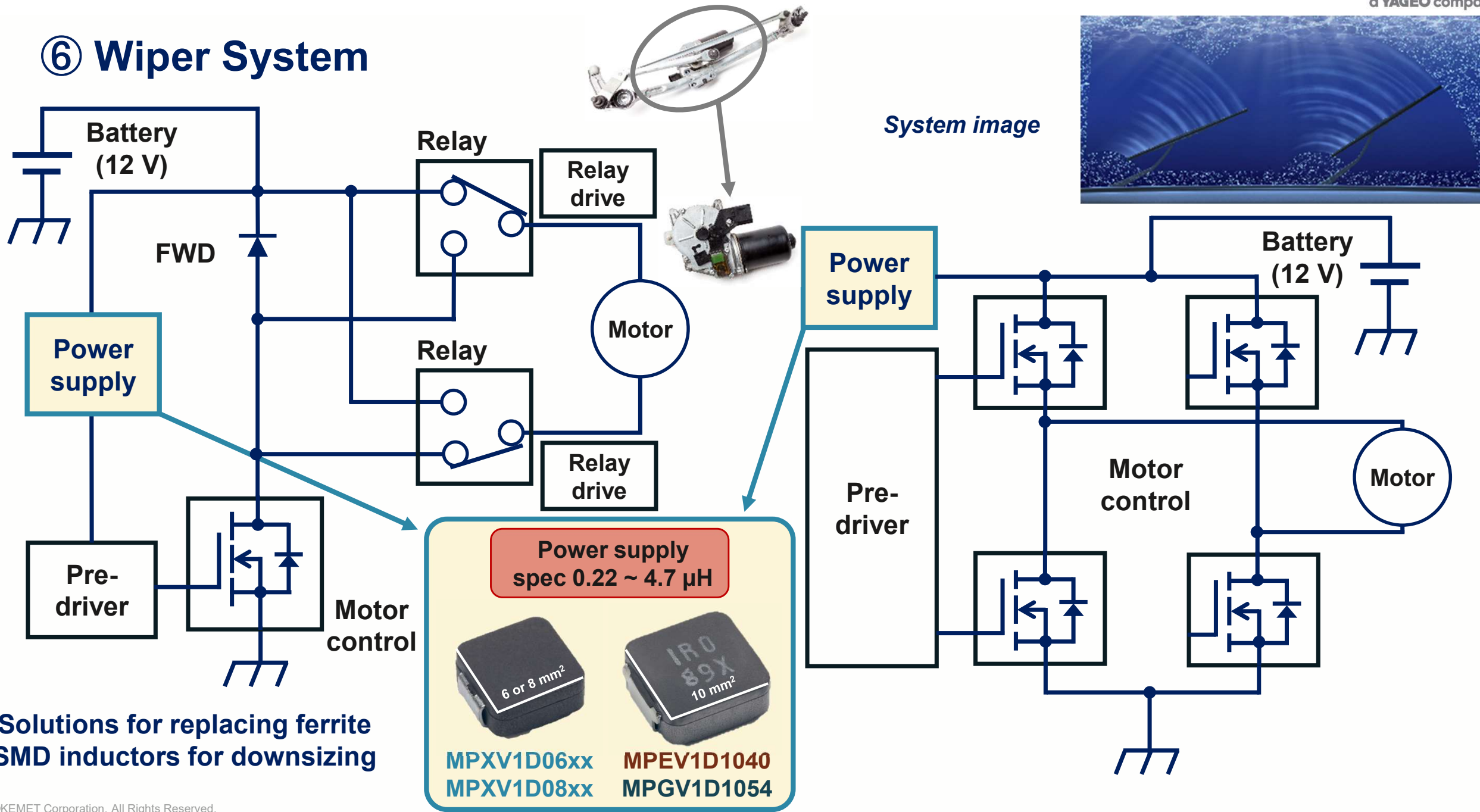
④ Battery Management System (BMS)



⑤ Electric Oil Pump & Water Pump



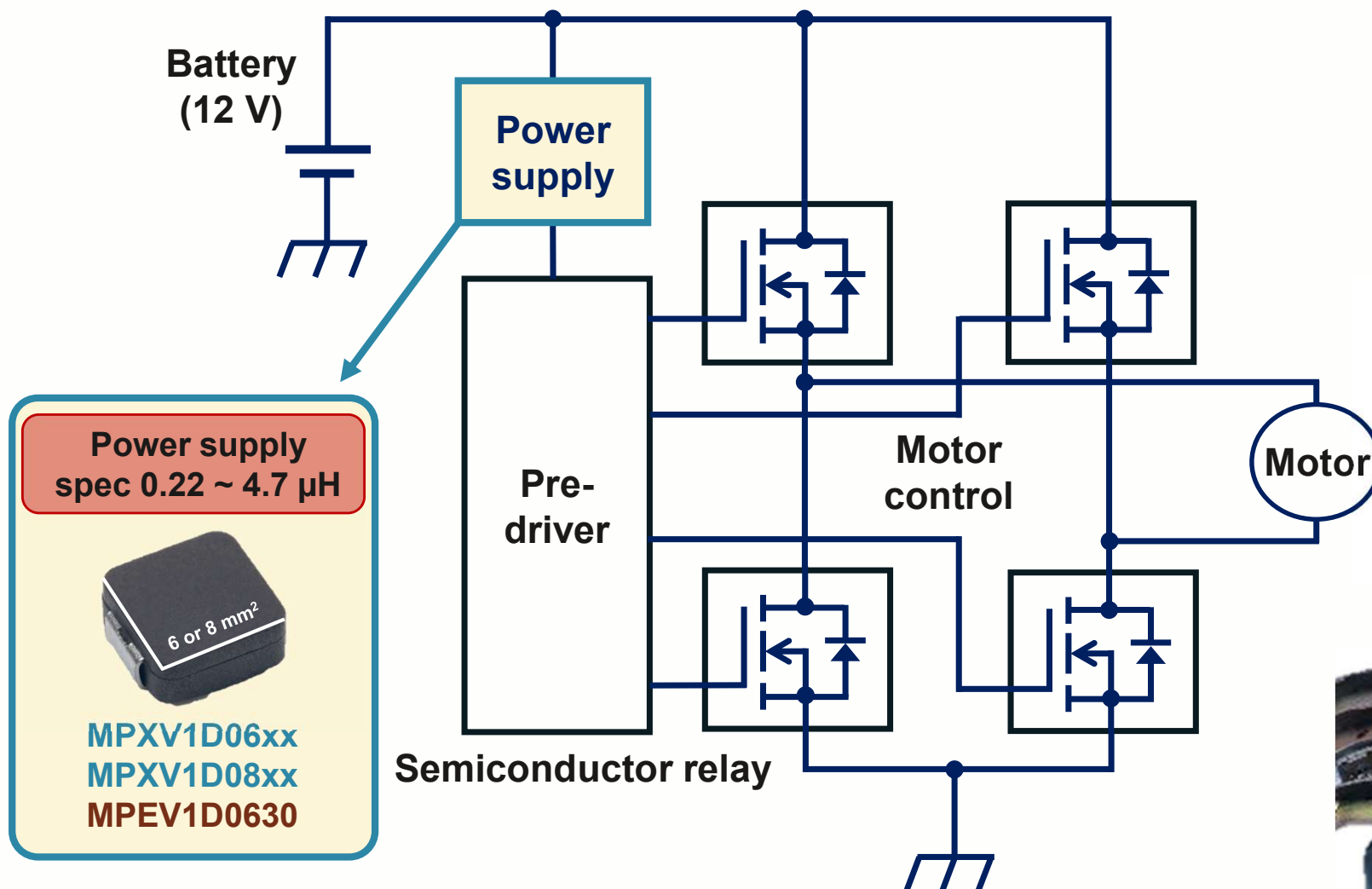
⑥ Wiper System



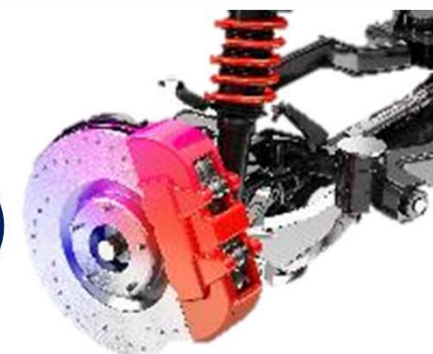
Solutions for replacing ferrite
SMD inductors for downsizing

⑦ Electric Parking Brake (EPB)

System image



* 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

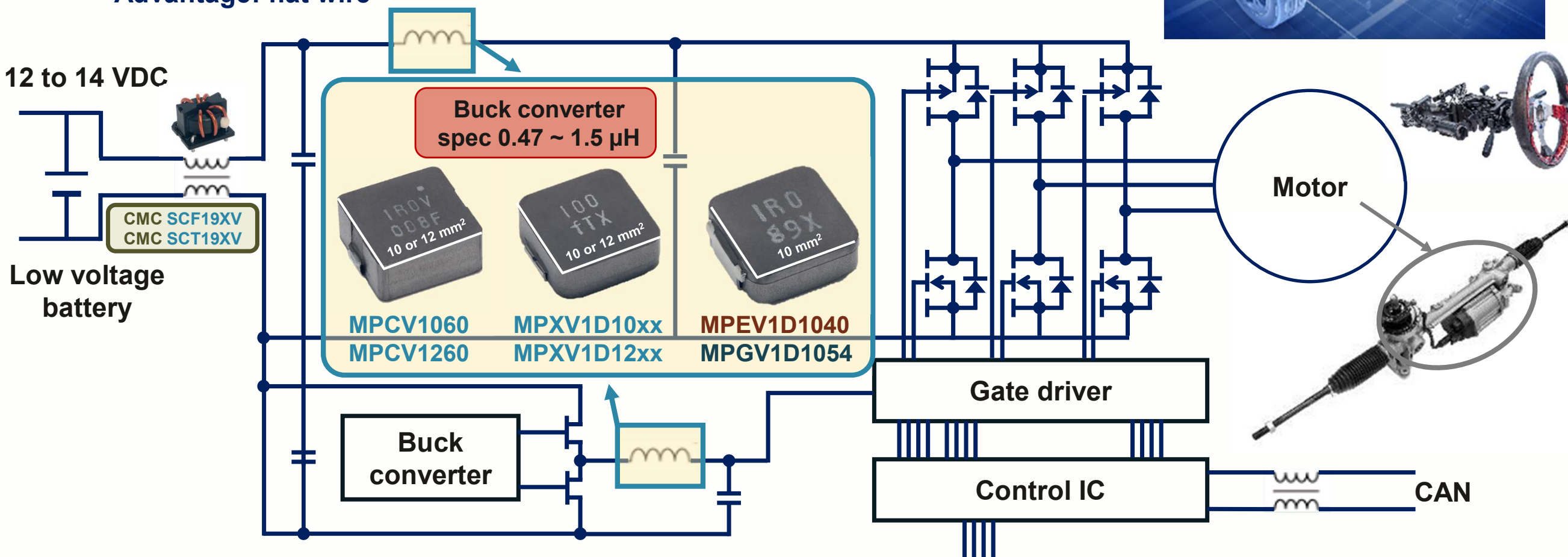
System image



Motor



CAN



⑨ Head Up Display (HUD)

Power supply
spec 1 ~ 10 μ H



MPXV1D05xx
MPXV1D06xx
MPEV1D0630



System image



Display

