

Optocouplers for Voltage Conversion in EV Charging Stations

AC/DC and DC/DC converters widely use an isolated feedback loops to optimize electric power efficiency.

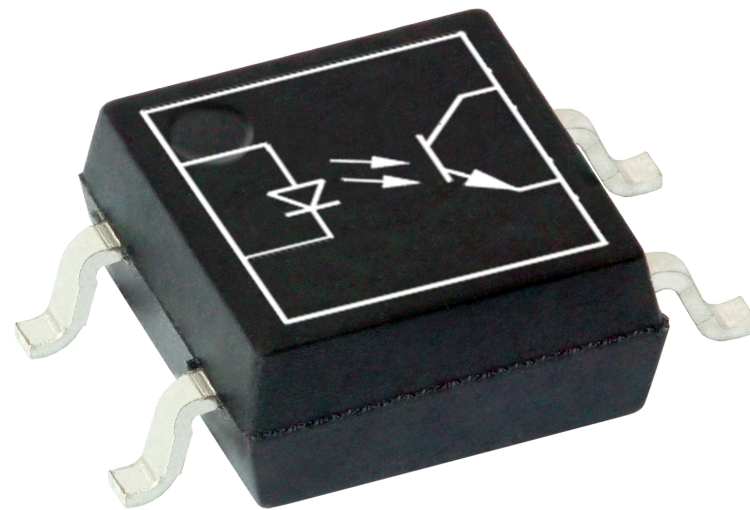


Typical applications include on-board chargers, power wall chargers, or 48 V board net converters.



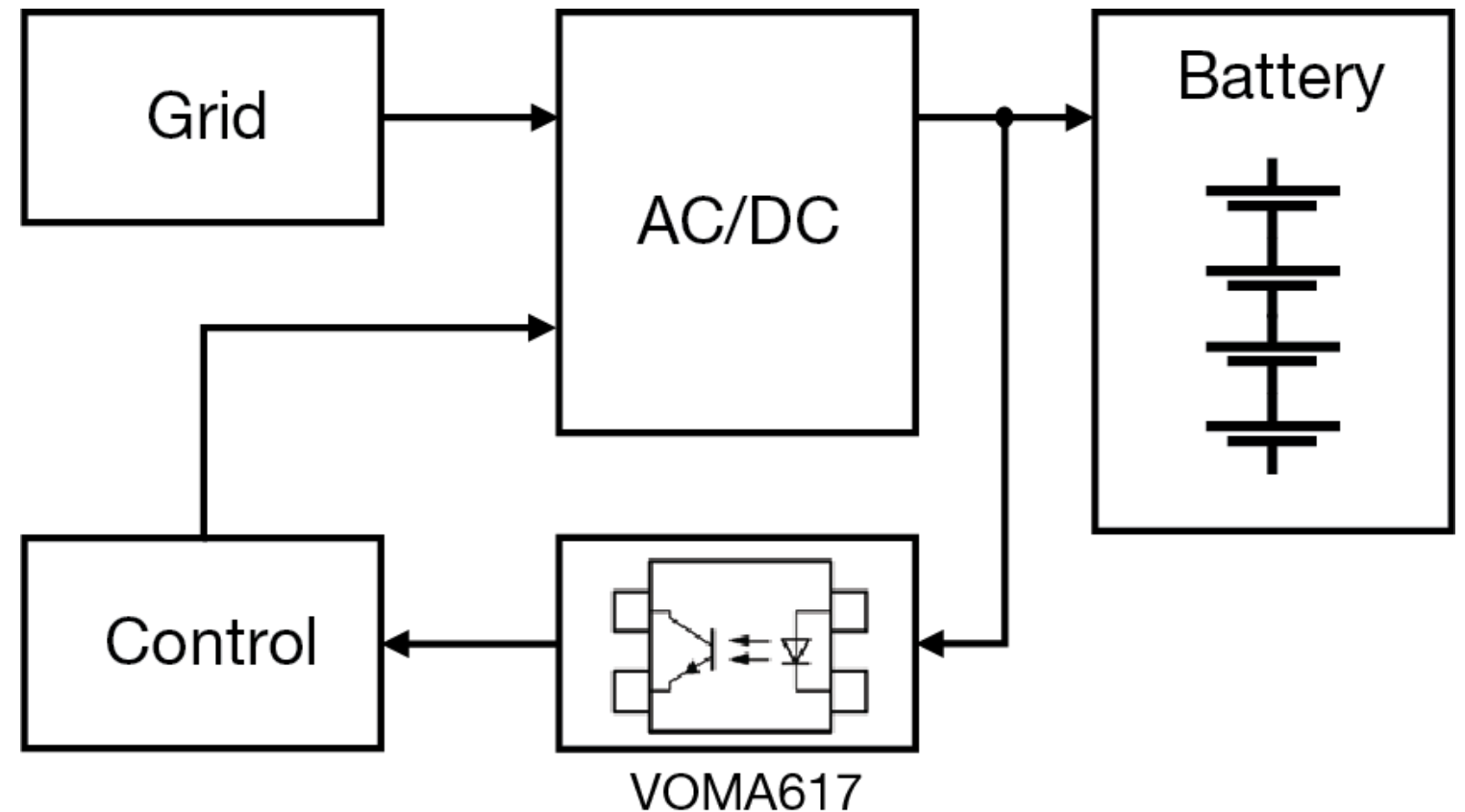
Depending on the on-board charging system in the vehicle, either an AC/DC or DC/DC converter is needed in the charging station.

Both require a VOMA617A feedback loop!



VOMA617

Automotive transistor coupler
in low profile SOP-4 package



Proximity Sensing

Long distance proximity sensors can be used in charging stations and wall chargers to detect approaching vehicles and activate a display



VCNL4200

(8.00 x 2.45 x 0.6) mm
Ambient light + IR sensor