# Where do I use Current Sense Resistors?

## Current Control

- Used to detect and control the current on each phase and time and at any time
- To arrange a feedback for the control circuit

**Applications**
- Motor control
- DC/DC converter
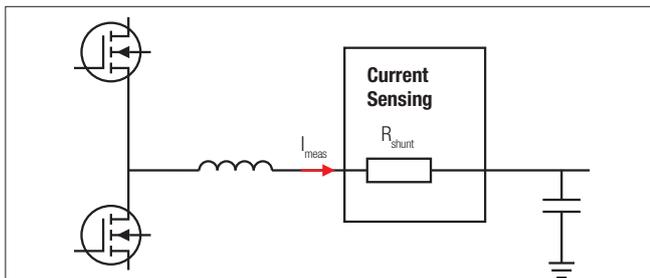- Power supply inverter

**DC/DC converter**     **Power supply inverter**

## Overcurrent Sensing & Detection

- Overcurrent within the circuit can cause malfunctions and failures
- Measured current is higher than the max. defined current
  - ➜ the system will detect a failure state

**Applications**
- Motor control
- Battery control
- Power supply protection
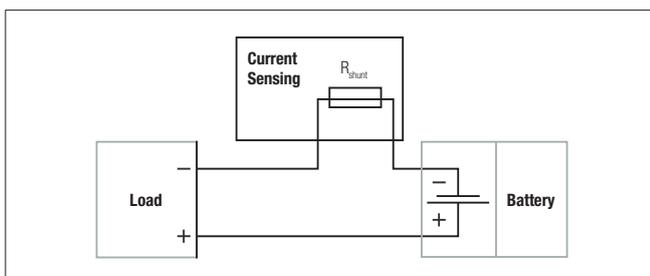
**Battery control**     **Power supply protection**

## Current Management

- Especially for systems using secondary batteries
- Monitoring current or voltage level of a battery, to know the remaining power level and to keep the system properly operating
- Real-time measurement to monitor the power level and charging status

**Applications**
- Electric vehicles
- Mobile devices
- Computer devices

**Electric vehicles**     **Mobile devices**

**Resistors**