

Consistent Precision & Reliability

SMART CHARGING

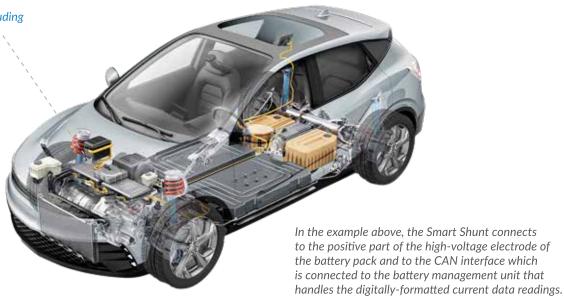
SH Series

SH20000F8536 and SH8000M6918 current sensors are current sensing modules which can be used to measure bidirectional DC current. The sensor design is based on low-TCR shunt, adopts 16-bit ADC, M0-architecture MCU core and communicates through CAN2.0 A/B protocol.

Highlights

- High accuracy
- Low power consumption
- Wide operating temperature range and stability
- Excellent response speed
- Anti-interference ability





SH20000F8536



Resistance: 25, 50uΩ • ContinuousCurrent: 600A

SH8000M6918



Resistance: 50, 100uΩ • ContinuousCurrent: 350A

Features

- Current Measurement Range: ±20000A
- Overcurrent: ±1800A @ 15s; ±22400A @ 50ms
- Measurement Accuracy: ±0.1%
- Current Offset Error: ≤±30mA
- Supply Voltage: 6V 18V
- Operating Temp. Range: -40°C ~ +105°C
- Storage Temp. Range: -40°C ~ +125°C
- Power Consumption: ≤384mW @12VDC

Features

- Current Measurement Range: ±8000A
- Overcurrent: ±600A @ 15s; ±1400A @ 10ms
- Measurement Accuracy: ±0.5%
- Current Offset Error: ≤±60mA
- Supply Voltage: 6V 18V
- Operating Temp. Range: -40°C ~ +105°C
- Storage Temp. Range: -40°C ~ +125°C
- Power Consumption: ≤216mW @12VDC

Benefits

Accurate DC current monitoring is critical in increasing efficiency, reducing operational costs and contributing to ecological sustainability in high power applications. The ability to monitor current values, functions and processes in real time facilitates the management of electricity consumption costs, energy wastage and enables manufacturers to adhere to environmental guidelines.





Applications

- EV car battery charging and monitoring
- Electric truck manufacturing
- Hydrogen fuel cells for cars
- Electric bus
- Uninterruptible Power Supply Systems
- Battery-powered trains
- Motor control for current limitation

SHUNT BASED CURRENT SENSING WITH PCB

6918PCBSMB100

 Resistance: 100uΩ
Continuous Operating Current: ±350A

8436PCBSMP025



 Resistance: 25uΩ
Continuous Operating Current: ±800A

8518PCBSMA050



 Resistance: 50uΩ
Continuous Operating Current: ±350A

8536PCBSMP050



 Resistance: 50uΩ
Continuous Operating Current: ±600A

Features

- High Accuracy Current Measurement Connector
- Horizontal 4, 9 PIN Connector
- Applicable to High Pulse
- Current Real-Time Temperature Measurement
- Low TCR, Low Inductance, Low Thermal EMF
- Excellent Long-Term Stability

Applications

- Automotive current monitors
- Battery management systems
- Uninterruptible Power Supply Systems
- EV charging stations
- Motor control
- Electric motorcycles
- Over current protection
- Power Distribution Unit (PDU) current measurement
- Fuel cells