BSS™(Lead-acid Battery State Sensor)











Applications

Status estimation of lead-acid battery

OCV: Open Circuit Voltage SOH: State Of Health SOC: State Of Charge SOF: State Of Function

Features

- Pulse discharge circuit
- Quick and accurate battery state estimation by original algorithm
- Internal resistance measurement of multiple frequencies

Automotive-friendly performance,

- Prevention of flat battery
- Fuel efficiency improvement and CO₂ emission reduction



Mounted BSS

How We Did It

Concepts of battery state sensors

Measurement items

Charge and discharge current

Voltage

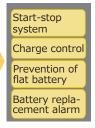
Temperature

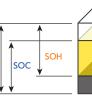
Internal resistance

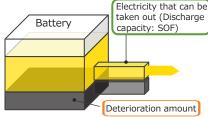
Estimating items

OCV	Battery voltage of stable state(V)
soc	Current charging rate(%)
SOF	Voltage when starting engine(V)

Functions on vehicles







*****Under our estimation method

Items	Estimation accuracy	
OCV	± 0.1V	
SOC	± 10%	
SOF	± 0.5V	
SOH	± 16%	



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