Hall Effect Current Sensor | OM-BOD-L101D

The OM-BOD-B101D Hall Effect Current Sensor is designed for accurate measurement of battery string current in online battery monitoring applications. It integrates seamlessly with battery monitoring hosts, DC voltage transmitters, temperature sensors, and individual battery acquisition modules for a complete monitoring solution. Featuring automatic address encoding upon connection to the host, it simplifies configuration by self-assigning its position and battery group correspondence. Utilizing SNS bus communication, it supports mixed serial connections with voltage transmitters, temperature sensors, and battery modules for flexible system expansion. The open-loop split-core design enables easy installation around busbars without cable disconnection.

Specifications

Power Supply	
Voltage	9 ~ 16V DC
Current	≤100mA @ 12V DC
Overcurrent/Overvoltage Protection	18V / 200mA
Protection Method	PPTC + TVS
Surge Protection	600W
Measurement Parameters	
Current Range	±1000A DC
Current Accuracy	±1% (FS) @ 25°C
SNS Bus Interface	
Quantity	2 ports
Connector Type	RJ45 (T568B)
Baud Rate	4800 bps
Address Setting	Automatic address encoding, range 1 ~ 255
Protection Method	PPTC + TVS
Overcurrent/Overvoltage Protection	18V / 200mA
Operating Environment	
Operating Temperature	-40°C ~ 85°C
Operating Humidity	5% ~ 95% (non-condensing)
Insulation	
Insulation Strength	1500V
Indicators	
Status LED	Yes
Mechanical Specifications	
Dimensions (L × W × H)	83 mm × 19 mm × 96.47 mm
Aperture Diameter	35 mm