

Single Battery Acquisition Module | OM-BOD-L112D (12V)



The OM-BOD-L112D measures individual 12V battery voltage, internal resistance, and temperature. It integrates with DC voltage transmitters, Hall sensors, and battery monitoring hosts for complete battery supervision. Featuring automatic address encoding upon connection, it eliminates manual configuration for rapid deployment. Using SNS bus communication, up to 64 modules can be daisy-chained per channel. Simple Installation

Specifications

Power Supply

Voltage	5 ~ 18V DC
Protection Method	Fuse
Overcurrent Protection	1A
Operating Current	Normal acquisition: $\leq 6\text{mA}$ @ 13.5V; Difference current between modules: $\leq 0.5\text{mA}$

Measurement Parameters

Voltage Range	5 ~ 18V DC
Voltage Accuracy	$\pm 0.1\%$ (FS) @ 25°C
Temperature Range	-10°C ~ 99.9°C
Temperature Accuracy	$\pm 0.5^\circ\text{C}$ (-5°C ~ 50°C)
Internal Resistance Range	100 ~ 65535 $\mu\Omega$
Internal Resistance Repeatability	$\pm(2\% + 30\mu\Omega)$ @ 25°C

Isolation

Isolation Voltage	4200V
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SNS Bus Interface

Quantity	2 ports
Connector Type	RJ45 (T568B)
Baud Rate	4800 bps
Address Setting	Automatic address encoding, range 1 ~ 255

Operating Environment

Operating Temperature	-40°C ~ 85°C
Operating Humidity	5% ~ 95% RH (non-condensing)

Indicators

Long Flash	Device power-on
Slow Flash	Normal communication
Fast Flash	Internal resistance acquisition in progress

Mechanical Specifications

Dimensions (L × W × H)	75 mm × 46 mm × 26.4 mm (± 2 mm)
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