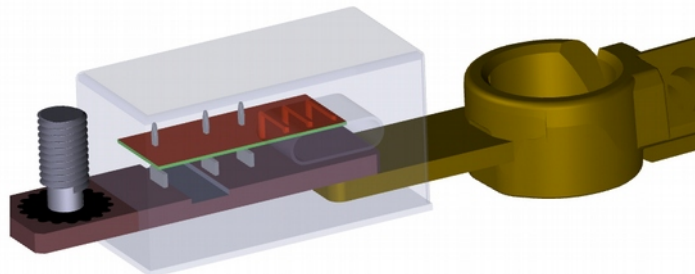


Design Study: Smart Battery Clamp for Customer-Specific Electronic Battery Systems



Features

- + Customer-specific design, incl. shunt, busbar, Hall sensor, packaging
- + Assembly-friendly pin configuration, e.g., pressfit, rivet
- + Cost-effective shunt/Hall technology
- + In-house shunt and busbar assembly
- + Contactless Melexis 91208 Hall sensor

Applications

- + Battery monitoring unit
- + Intelligent electronic battery sensors
- + e-mobility, high-voltage
- + State-of-charge, state-of-health
- + Solar and renewable energy
- + Functional safety

Description

The design study 'Smart Battery Clamp' is a showcase of our capability to develop and manufacture customer-specific battery monitoring modules including the shunt resistor, busbar design and assembly, the configuration of terminals and battery clamp, and the injection-molded packaging. The current sensor is realized with cost-effective shunt or Hall technology. Both technologies can be combined for functionally-safe operation. >>We are your partner throughout the entire process from first draft to full volume production.<<

Characteristics

Parameter	Typical Value	Unit
Primary input current range	$\pm 5 \dots \pm 500$	A
Voltage measurement range	$\pm 5 \dots \pm 800$	V
Maximum power	60	W
Operation temperature range	$-50 \dots 150$	°C

Please contact us at



maglab AG

 Güterstrasse 141
 CH-4053 Basel, Switzerland

 +41 61 261 16 44
info@maglab.ch
www.maglab.ch


Permanent Magnets Ltd.

 B-3, MIDC Industrial Area, Mira-gaon Miraroad-East,
 Thane-401104, Maharashtra India

 +91 22 62 16 54 00
shuntinquiry@pml.in
www.pmlindia.com