



BATTERY MANAGEMENT SYSTEM – Questionnaire

LION Smart GmbH is a research and development company in the field of electrical energy storage and battery system technology. LION Smart is developing battery packs, battery management systems and, together with TÜV SÜD Battery Testing GmbH, test benches and test laboratories for electrical storage systems. **Please fill in the form below and send it back to sales@lionsmart.com**

General Information

Project title:

Date:

Company:

Contact person:

Telephone:

E-Mail:

Questions

What type of battery management is needed?

High voltage BMS

Low voltage BMS

Technical field of application: Automotive

Navy

Industry

Home storage

Other:

What norms need to be fulfilled (e.g. ISO 26262)?

In which countries will the product be used?

What quantities are needed and until when related to the master? (Prototype)

Quantity:

Time period:

What quantities are needed and until when related to the master? (Series production)

Quantity:

Time period:

System architecture

How many cells in series are in the system?

How many cells are in the system at the same time?

How many cells are connected in series per module?

How many temperature sensors per module are desired?

Are there any special features regarding the module?



Questions

Which cell chemistry is used with which cell specification?

- Cell name:
- Cell capacity [Ah]:
- Max. cell voltage limit [V]:
- Min. cell voltage limit [V]:
- Max. cell temperature limit [°C]:
- Min. cell temperature limit [°C]:

What are the system requirements?

- Max. charging current [A]:
- Max. discharge current [A]:
- Min. system Voltage [V]:
- Max. system voltage [V]:
- Max. charging power [kW]:
- Max. discharge power [kW]:

What are the operating and environmental conditions of the system?

- Temperature range [°C]:
- Humidity [%]:
- Ambient pressure [bar]:

Which interfaces are needed?

- Communication protocols (e.g. Modbus, CANOpen, etc.):
- Physical interface (e.g. UART, RS485, CAN, LIN, etc.):

What are the requirements for the battery disconnect unit?

- How many HV voltage measurement channels are needed? (1-3)
- How many HV contactors are needed? (1/3/5)
- Which contactor is needed?
- Do the contactors have feedback?
- Is an insulation measurement needed? Yes No

Please attach all available technical documents (e.g. the specification sheet, system description, cell data sheet)

Other/Comments/Boundary conditions: