

Requirements Form for Battery Pack Production

The information you provide in this inquiry form will help us consider some fundamental aspects of your request before our first conversation and allow us to advise you in the best possible way. It serves as the basis for an initial specification of the energy system.

Please send the completed form to projects@abh-nord.de. We look forward to your project. Your ABH-Nord team.

Contact Details

| | Name | E-Mail | Phone |
|---------------------|-------|--------|-------|
| Project manager: | _____ | _____ | _____ |
| Technical contact: | _____ | _____ | _____ |
| Commercial contact: | _____ | _____ | _____ |

General Project Details

Customer name: _____

Technology (preferred): Please select:

Cell type (preferred): Please select:

Use case: Detailed description:

Web-link: _____ Please attach images separately.

Your project phase: Please select:

Please describe the scope of your request:

Project Plan

| QUANTITY | Quantities | Samples/ Prototypes | Start of Production | Mass Production (Year 1/Year 2/Year 3) |
|----------|---------------|------------------------|------------------------|---|
| | Month/Year: | _____ | _____ | _____ |
| | Quantity: | _____ | _____ | _____ |
| | Target price: | _____ | _____ | _____ |

Electrical Parameters

| PACK | Parameters | Unit | Wish | Comments |
|------|---|----------------|-------|----------|
| | Configuration: <small>S: Cells in series, P: Cells parallel</small> | xS yP | _____ | _____ |
| | Capacity: | C (Ah) | _____ | _____ |
| | Service life (expected): | Cycles/80% DoD | _____ | _____ |

DISCHARGE

| Parameters | Unit | Wish | Comments |
|--|---------------------|-------|----------|
| Power consumption of the application: | P (W) | _____ | _____ |
| Nominal operating voltage of application: | U nom (V) | _____ | _____ |
| Max. operating voltage of application: | U max (V) | _____ | _____ |
| Nominal constant current consumption of the application – if possible, load profile: | I nom (A) | _____ | _____ |
| Max. power consumption of application: | I max (A)/t max (s) | _____ | _____ |
| Minimum ambient temperature during use: | T min dis (°C) | _____ | _____ |
| Maximum ambient temperature during use: | T max dis (°C) | _____ | _____ |
| Additional information on unloading/load | | | |
| CASE: Anything that helps us to better understand your application. | | | |

CHARGE

| Parameters | Unit | Wish | Comments |
|--|--------------------|-------|----------|
| Expected charging time: | t ch (h) | _____ | _____ |
| Charging temperature: | T (°C) | _____ | _____ |
| Information about recuperation: How high do the voltages and currents rise? Over what period of time? | U max (V) @ t (ms) | _____ | _____ |
| | I max (A) @ t (ms) | _____ | _____ |

Protective Circuit/BMS

ELECTRONICS

| Parameters | Info | Wish | Comments |
|--------------------------|----------|-------|----------|
| Communication interface: | Data bus | _____ | _____ |
| Charge status display: | | _____ | _____ |
| Additional information: | | | |

Mechanical Requirements

MECHANICS

| Parameters | Unit | Wish | Comments |
|--|--------|-------|----------|
| Maximum available installation space: | L (mm) | _____ | _____ |
| | W (mm) | _____ | _____ |
| | H (mm) | _____ | _____ |
| Type of battery compartment: | | _____ | _____ |
| IP class: | IP | _____ | _____ |
| Additional information about the housing, e.g. with handle, rubberised, painted, with lock, etc: | | | |

Certifications

| LICENSING | Parameters | | Wish | Comments |
|-----------|-----------------------|----------------------|-------|----------|
| | UN 38.3: | Mandatory | _____ | _____ |
| | IEC 62133 - 2:2017: | Recommended | _____ | _____ |
| | UL certification: | For your application | _____ | _____ |
| | Global market access: | Countries/Regions | _____ | _____ |

Additional Requirements and Information About the Energy System and End Use

Description and further details:

(Special requirements for packaging/cartons/preferences/design/stickers on the pack, and which information should be included on the label)

Charger Requirements

| CHARGING SOLUTION | Parameters | Unit | Wish | Comments |
|-------------------|-------------------------|----------------|-------|----------|
| | Charging solution: | Please select: | _____ | _____ |
| | Max. output power: | P (W) | _____ | _____ |
| | Input voltage: | U ch (V) | _____ | _____ |
| | Max. charge current: | I ch (A) | _____ | _____ |
| | Max. dimensions: | L x W x H (mm) | _____ | _____ |
| | IP class: | IP | _____ | _____ |
| | Additional information: | | | |