

HIGH-CAPACITY BATTERY SYSTEM

INDIVIDUA 44 400



The Individua battery system is a unique modular system, which allows flexible packaging and is adaptable to customers' requirements and installation space.

HIGH ENERGY BATTERIES

| |
|---|
| Lightweight package |
| Automotive OEM cell module origins from large scale series production |
| Operating temperature range from -40 up to 55 °C |
| Liquid cooling and heating with homogenous temperature distribution |
| Cycle life > 2500 |
| 15 years calendrical lifespan |
| IP 6K9K rated aluminum housing |
| Maintenance-free |
| EMI compliant |

BMS

| |
|--|
| Advanced Automotive algorithms (SoC, SoH & Power prediction) |
| Diagnostic event map |
| ISO26262 ASIL C certified |
| Clear CAN interface for easy connectivity |
| BMS tested according to Automotive Standards |
| Passive cell balancing |
| Voltage, current, temperature and humidity monitoring |

SAFETY CONCEPT

| |
|---|
| Cell rated < L4 EUCAR Safety level (Mechanical, Thermal and electrical abuse) |
| Multilayer safety on cell (Fuse & OSD) and system level |
| Cell module certified according to UN38.3 |
| Emergency stop, emergency input and high voltage interlock |
| Integrated short-circuit monitored precharge sequence |
| Insulation monitor according to ISO6469-3 |
| Interchangeable service disconnect with integrated fuse |
| Membrane with bursting disc integrated in housing |

Swiss innovation brought to the point.

We are your specialist in developing and mass production of high voltage batteries for electromobility purposes.

We build custom modular traction batteries for our clients in the European region. We use mass produced high-quality components and cells used in the automotive industry. Our modular system make our batteries flexible to use. Whether for commercial vehicles, supplying ground power for planes, on trains or at sea. System compatibility and our partners allow us to support automakers from preliminary study all the way to series production and service.

Batteriewerk Schweiz AG

Gewerbestrasse 3
CH-5037 Muhen
batteriewerk.ch
info@batteriewerk.ch
Tel: +41 62 737 66 40

TECHNICAL SPECIFICATIONS


43 kWh
ENERGY



140 Wh/kg
ENERGY DENSITY



305 kg
WEIGHT

| INDIVIDUA 44 | |
|-------------------------|-------------------|
| Modules per Pack | 8s 1p |
| Capacity | 120Ah |
| Nominal voltage | 353V |
| Maximum voltage | 395V |
| Minimum voltage | 280V |
| Discharge capacity (5s) | 120kW |
| Charging capacity (5s) | 100kW |
| Internal fuse | 350A |
| Interface | CAN 2.0 12V...24V |

| MODULE 5,4 | |
|-------------------------|--|
| Cells per module | 12s 1p |
| Capacity | 120Ah |
| Energy | 5.4 kWh |
| Technology | Li-Ion NCM (nickel-cobalt -manganese) |
| Nominal voltage | 44.2V |
| Maximum voltage | 49.5V |
| Minimum voltage | 35V |
| Discharge power (5s) | 15.5 kW |
| Charging power (5s) | 12.7 kW |
| Discharge current (RMS) | 135A |
| Charge current (RMS) | 60A |
| Internal fuse | 380A |
| Charging cycles | >2500 (>80% initial capacity, @ 0.5C/1C, SOC 100%, 25°C) |
| Discharging temperature | Ranging from -25 to 50°C |
| Charging temperature | Ranging from -10 to 50°C |

