

PRODUCT CONCEPT

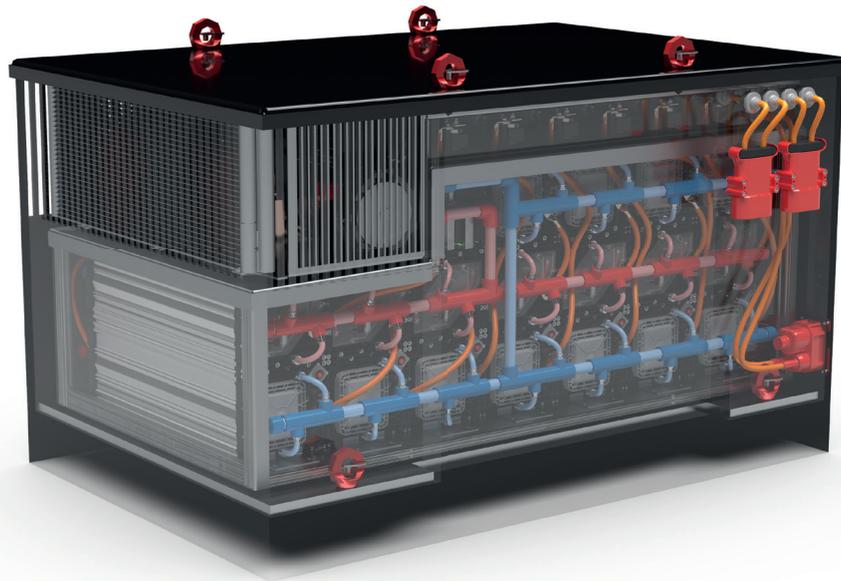
ULTRA FAST-CHARGING BATTERY SYSTEM

handtmann
Ideas for the future.

AVAILABLE 2026

CHARGE-FAST, STAY COOL, LIVE LONG

-  **Ultra fast-charging:** 20-80% SOC in only 12 minutes (C-rate = 3)
-  **Visionary BMS:** enables battery reconfiguration, switching between 500V CCS fast-charging and 80-100V discharging modes
-  **Telemetry:** battery data interface for fleet management software
-  **Temperature conditioning:** fully integrated thermal management system



The ultra fast-charging low voltage battery offers manufacturers of non-automotive, off-highway vehicles a reliable battery that charges in only 12 minutes, vastly reducing downtime and improving efficiency. An innovative design with cooling at the poles prolongs battery life reducing investment and carbon footprint whilst a non-toxic cooling fluid greatly reduces the risk of propagation and improves safety. The battery modules can also be rearranged to fit into DIN A, B and C trays to adapt to existing designs.

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Feature	Technical data
Battery capacity (energy)	51.6 kWh
Cell format / chemistry	cylindrical, LFP
Cooling technology	immersion cooling
Dimensions battery pack (LxWxH)	990 x 1495 x 870 mm
Weight	800 kg + 2600 kg steel case
Lifetime in cycles	up to 5000

Feature	Discharging	Charging
Battery voltage (rated)	76.8 V	460.8 V
Battery capacity	672 Ah	
Battery current (continuous)	up to 3360 A (5C)	336 A (3C)
Power (max, continuous)	up to 258 kW	155 kW
DOD	up to 90 %*	

*depends on customer application



Handtmann, EJOT and Whitemark – a strong connection for innovative technology!
 With decades of experience in producing parts for the automotive and other industries, the family-owned manufacturers **Handtmann Systemtechnik** and **EJOT** have entered a cooperation agreement with the innovative battery-technology **Whitemark Technology GmbH**.
 The aim: to develop a new generation of ultra fast-charging, immersion-cooled batteries for non-automotive applications.

ANY QUESTIONS? We are happy to help you!

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