New Li-Ion Extra High Energy Density Battery
with Revolutionary Vacuum Fixation Technology

Design Features
• Revolutionary Vacuum Fixation Technology that leads to:
  o low weight with extreme specific energy density values
  o low cost and flexible battery pack design (cylindrical or pouch cells)
  o efficient air cooling system
  o fewer battery pack parts for improved cost and reliability
  o improved battery pack safety due to rigid construction
  o rugged design for challenging environments (IP69k certification)
• Thermal insulation for independence from ambient conditions (extends service life)
• Battery Management System with wireless voltage sensing (improved reliability)
• Can be designed from low (48VDC) to high voltage (1200VDC)
• Universal battery that can be customized per customer demand (modular design)
• Module aluminum housing works as a temperature heat sink, eliminating internal heat exchangers

Potential Applications
• Automotive, truck, bus, heavy-duty transportation, electric aviation, marine
• PHEV, HEV, BEV

For battery prototypes and technology licensing, contact OBRIST Powertrain

WWW.OBRIST-POWERTRAIN.COM
Rheinstrasse 26-27 - 6890 Lustenau - Austria
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Technical Details PHEV (cylindrical)
- Samsung INR18650-30Q (3000mAh)
- Energy: 17.3kWh (100s16p)
- Nominal voltage: 360VDC (420V-240V)
- Continuous charge power: 26kW
- Continuous discharge power: 110kW (200kW pulse)
- Battery Dimensions: 1017 x 359 x 166mm
- Battery Weight: 98kg
- Module energy densities: 203Wh/kg, 446Wh/l

Technical Details BEV (cylindrical)
- LG INR18650-MJ1 (3500mAh)
- Energy: 20.2kWh (100s16p)
- Nominal voltage: 360VDC (420V-240V)
- Continuous charge power: 10.1kW
- Continuous discharge power: 60kW
- Battery Dimensions: 1017 x 359 x 166mm
- Battery Weight: 103kg
- Module energy densities: 224Wh/kg, 520Wh/l

Technical Details BEV (pouch)
- Customized (140Ah)
- Module Energy: 7.05kWh (14s1p)
- Module Nominal voltage: 50VDC (59V-34V)
- Continuous charge power: 3.5kW
- Continuous discharge power: 21kW
- Battery Dimensions: 559 x 2234 x 103mm
- Battery Weight: 30.5kg
- Module energy densities: 231Wh/kg, 527Wh/l

Vacuum Fixation Technology

Air Cooling System

CHECK OUT OUR BATTERY VIDEO AND ADDITIONAL INFORMATION
CLICK HERE