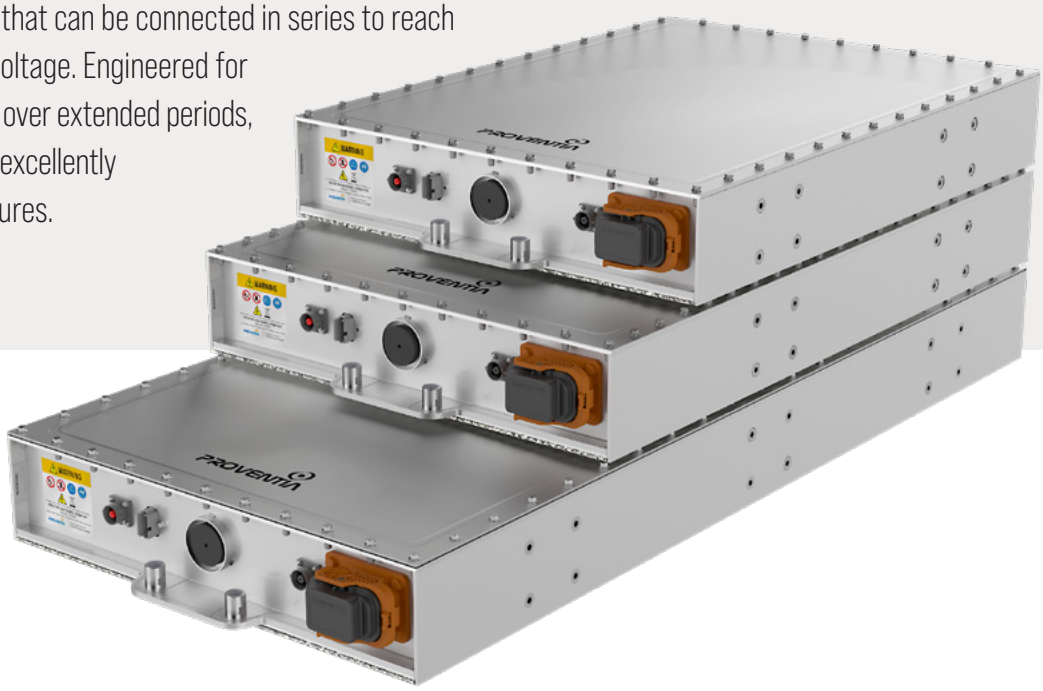
PROVENTIA ENERGY BATTERIES

HIGH-VOLTAGE LFP BATTERY SYSTEMS

Proventia modular high-voltage LFP battery packs are designed for full electric applications and can be configured from 190V up to 1000V. Standard packs are available in configurations of 5, 6, or 8 modules that can be connected in series to reach the desired system voltage. Engineered for continuous operation over extended periods, these packs perform excellently in extreme temperatures.



KEY FEATURES

- Compact and robust construction
- IP67 rating
- Stainless steel housing
- Remote monitoring available
- Pressure equalizer vent for added safety
- Water-glycol cooling integrated into the enclosure to minimize leaks
- Made in Europe from European cells
- Heavy-duty automotive-grade BMS system
- Multi-string support for up to 8 pcs of parallel-connected battery systems

BENEFITS

- Thermally stable and environmentally friendly Lithium Iron Phosphate chemistry (LFP)
- Excellent lifetime (up to 6500 cycles)
- Discharging possible between (-20...+55 °C)
- Charging possible between (0...+55 °C)
- Wide usable SOC range
  - Excellent input/output characteristics over a wide SOC range of 0–100%, making it possible to reduce the nominal battery capacity or the number of batteries necessary for a system

CONTACT US

Interested in our products and services?
Give us a call or send an email!

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TECHNICAL SPECIFICATIONS

Lifetime	> 6500 cycles[1]
Cell type	Prismatic LFP
Charge continuous current	100A[2]
Discharge continuous current	200A[2]
Self-discharge	7.5% (90 days)[3]

[1] SOH70% - Cycle characteristics depend on cycle and usage conditions.
[2] Cell temperature should not exceed the maximum operating temperature.
[3] 25 °C starting state of charge 25%

OPERATING CONDITIONS

Discharging temperature range	-20...55 °C
Charging temperature range	0...55 °C
Storage temperature (max recommended)	-20...45 °C
Storage Humidity	< 70%

SYSTEM LEVEL DESIGN AND VALIDATION

- IEC 62619 Industrial li-ion battery safety
- IEC 60664-1:2020 Clearance and creepage
- IEC 62485-6 Safe operation of traction batteries
- DNV GL-CG-0339 Class B (Mechanical loads)
- UN 38.3
- ISO16750-3 Mechanical loads on component level

TYPICAL APPLICATIONS

- Full electric
- Zero emission energy source in a hybrid

ELECTRICAL CHARACTERISTICS	5M	6M	8M
Nominal voltage (V)	192	230	307
Capacity (kWh)	19	23	31
Continuous power (kW)	19	23	31
Peak power (kW)	38	46	61

PHYSICAL DIMENSIONS			
Width (mm)	750	750	750
Length (mm)	1106	1291	1661
Height (mm)	170	170	170

PROVENTIA

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