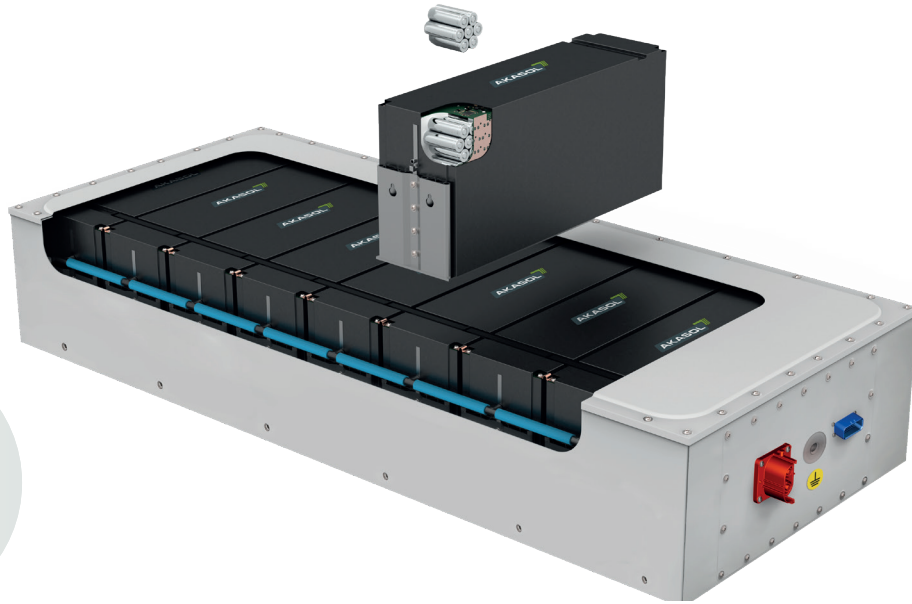


AKASYSTEM

9 AKM 150 CYC

198 kW (peak) • 99 kW (cont)
99 kWh • 662 V (nom) • 535 kg*

Typical product configuration. Appearance and interfaces may vary.
*All technical data depending on HV Fuse, connector, DoD / SOC and cooling.



AVAILABLE
2022

CERTIFIED ACCORDING TO AUTOMOTIVE STANDARDS.

- › Development according to ISO 26262 up to ASIL C / EN 61508 SIL 2 possible
- › Tested safety (e.g. ECE R10, UN 38.3, ECE R100) and "real world" experience
- › Protection classes IP67, IP6K9K
- › Serial production, IATF 16949 compliant
- › 21700 standard battery cells
- › Robust and proven control unit (BMU) with redundant safety system (SCU)
- › Multi-level short circuit protection on system level
- › Voltage and temperature monitoring
- › SOC / SOH analysis

SCALABLE. VALIDATED. DURABLE.

- › Freely scalable system with any number of AKASYSTEMs
- › Ultra high energy and high energy density
- › Easy system connectivity / ready-to-install
- › Excellent price-performance ratio
- › High cycle life
- › Maintenance-free operation
- › Active and passive thermal management
- › Liquid cooling
- › Passive cell balancing
- › Robust stainless steel battery case
- › Suitable for multi-string systems with monitoring on single-string and full system level
- › Designed especially for long-distance traffic

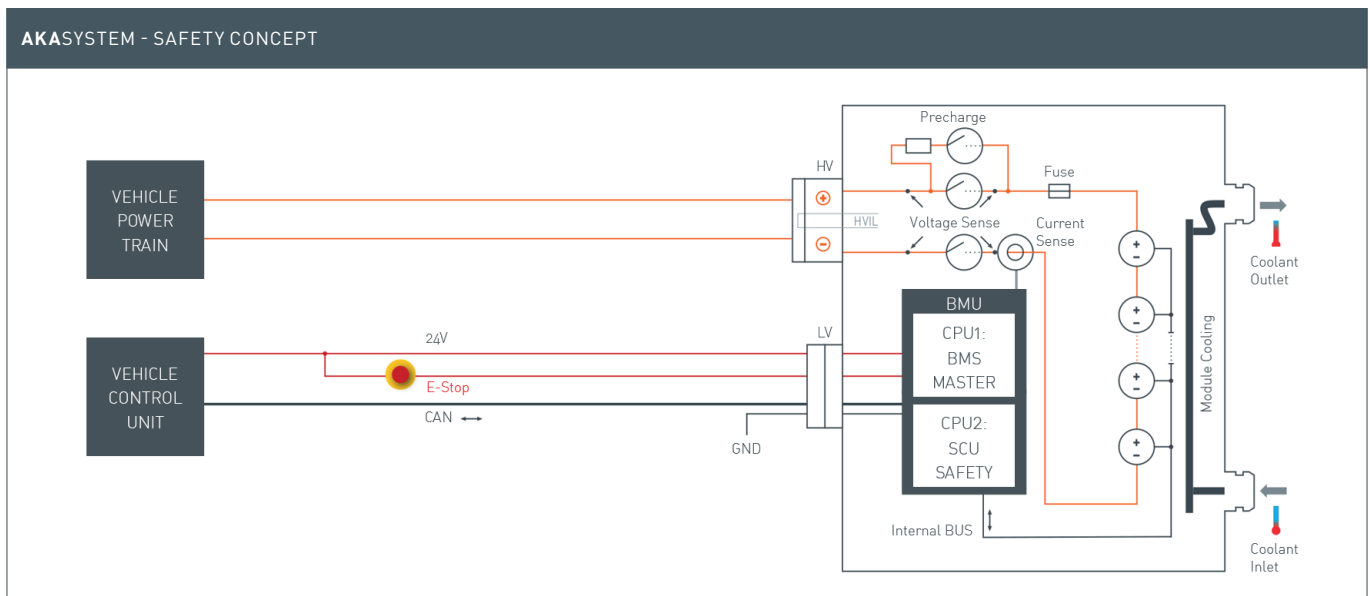
ELECTRICAL DATA	AKASYSTEM 9 AKM 150 CYC	2P AKASYSTEM 9 AKM 150 CYC	3P AKASYSTEM 9 AKM 150 CYC	nP AKASYSTEM 9 AKM 150 CYC
Cell connection in module	20s30p	20s30p	20s30p	20s30p
Capacity	150 Ah	300 Ah	450 Ah	n*150 Ah
Energy	99 kWh	198 kWh	297 kWh	n*99 kWh
Technology	Li-Ion NMC	Li-Ion NMC	Li-Ion NMC	Li-Ion NMC
Nominal voltage	662 V	662 V	662 V	662 V
Voltage (max.)	756 V	756 V	756 V	756 V
Voltage (min.)	540 V	540 V	540 V	540 V
Discharging power max. (10s)*	198 kW	396 kW	594 kW	n*198 kW
Charging power max. (10s)*	119 kW	238 kW	357 kW	n*119 kW
Discharging power (cont.)*	99 kW	198 kW	297 kW	n*99 kW
Charging power (cont.)*	49 - 99 kW	98 - 198 kW	147 - 297 kW	n*49 - n*99 kW
Power consumption in standby mode	10 W	20 W	30 W	n*10 W
Cycle life (depending on DoD, T, power)**	2,000...3,000 cycles	2,000...3,000 cycles	2,000...3,000 cycles	2,000...3,000 cycles

* Peak rating depending on cable, connector, SOC, temperature and internal fuse type ** Depending on individual use profile, especially DoD, temperature and power

MECHANICAL DATA	AKASYSTEM 9 AKM 150 CYC	2P AKASYSTEM 9 AKM 150 CYC	3P AKASYSTEM 9 AKM 150 CYC	nP AKASYSTEM 9 AKM 150 CYC
Coolant pressure max..	1.5 bar	1.5 bar	1.5 bar	1.5 bar
Coolant pressure drop (Water/glycol=50/50)	150 mbar @ 600 l/h nom. 25 °C	150 mbar @ 1200 l/h nom. 25 °C	150 mbar @ 1800 l/h nom. 25 °C	150 mbar @ n*600 l/h nom. 25 °C
Operating temperature range	-25 to 55 °C	-25 to 55 °C	-25 to 55 °C	-25 to 55 °C
Recommended operating temperature	15 to 35 °C	15 to 35 °C	15 to 35 °C	15 to 35 °C
Protection classes	IP67, IP6K9K	IP67, IP6K9K	IP67, IP6K9K	IP67, IP6K9K
Weight (incl. contactor box) typical ***	535 kg	1070 kg	1605 kg	n*535 kg
Dimension (L x W x H) in mm (nominal)	1,720 x 700 x 300	2* (1,720 x 700 x 300)	3* (1,720 x 700 x 300)	n* (1,720 x 700 x 300)

AKASYSTEM 9 AKM 150 CYC: freely scalable according to your application.

*** Depending on housing material



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HIGH-PERFORMANCE BATTERY SYSTEMS.
MADE IN GERMANY WITH 30 YEARS OF EXPERIENCE.

AKASOL is a leading European developer and manufacturer of high-performance and high-energy lithium-ion battery systems for commercial applications as well as a supplier of Turnkey Solutions. With 30 years of prototyping, engineering and testing experience, AKASOL provides safe, durable and market-ready battery systems in serial for major players in the commercial transport sector.