

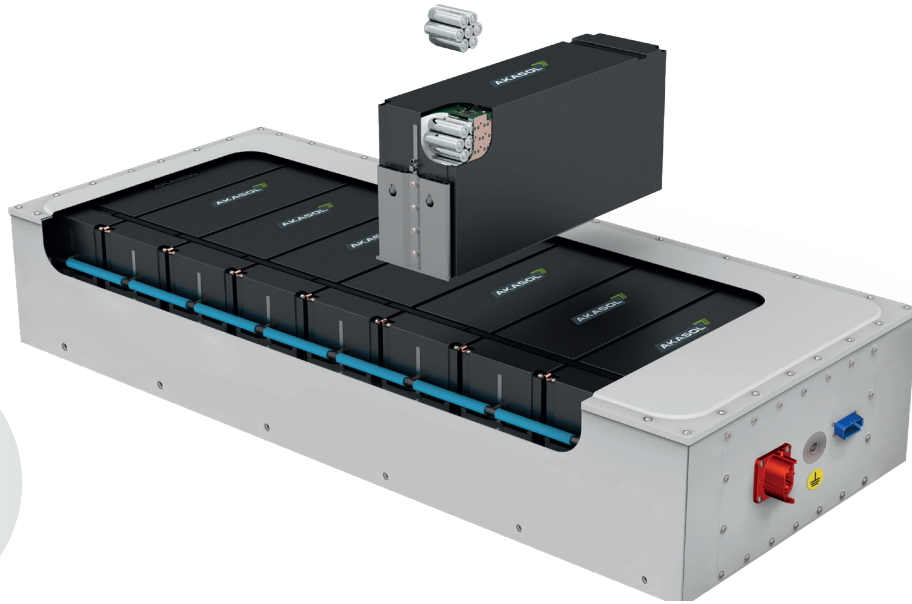
AKASYSTEM

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
- › 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

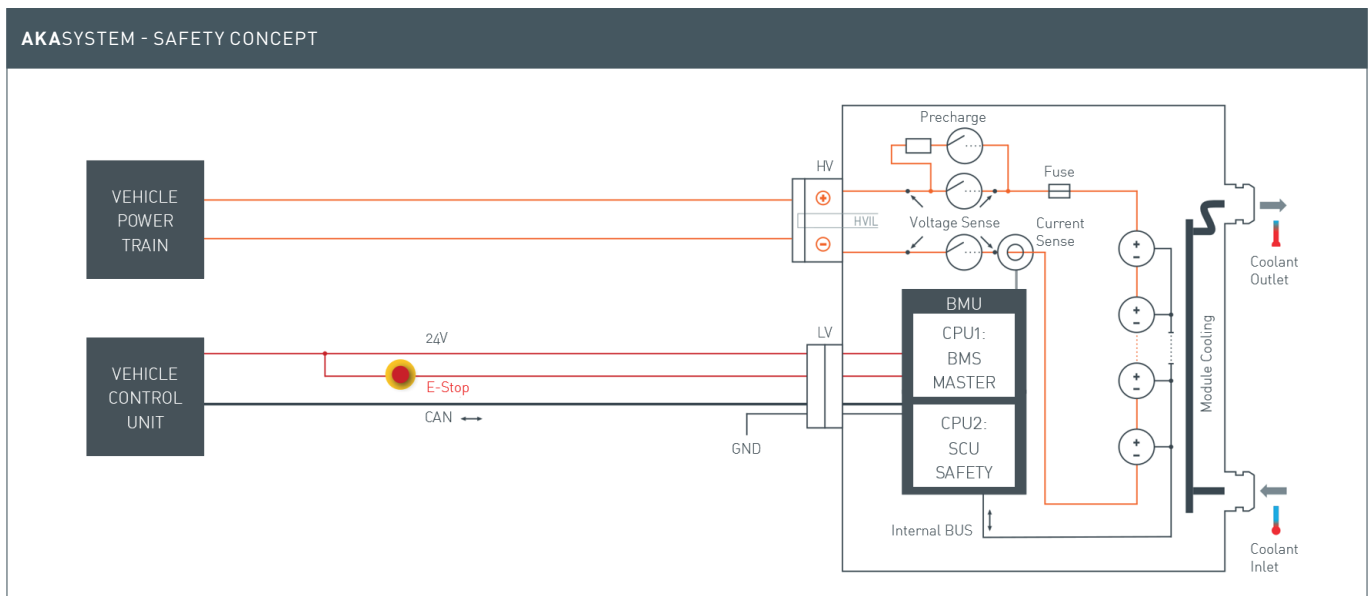
ELECTRICAL DATA	AKASOL SYSTEM 9 AKM 150 CYC	2P AKASOL SYSTEM 9 AKM 150 CYC	3P AKASOL SYSTEM 9 AKM 150 CYC	nP AKASOL SYSTEM 9 AKM 150 CYC
Cell connection in module	20s30p	20s30p	20s30p	20s30p
Capacity	150 Ah	300 Ah	450 Ah	n*150 Ah
Energy	99 kWh	198 kWh	297 kWh	n*99 kWh
Technology	Li-Ion NMC	Li-Ion NMC	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)*	150 kW	300 kW	450 kW	n*150 kW
Discharging power (cont.)*	99 kW	198 kW	297 kW	n*99 kW
Charging power (cont.)*	up tp 99 kW	up tp 198 kW	up tp 297 kW	up tp n*99 kW
Power consumption in standby mode	10 W	20 W	30 W	n*10 W
Cycle life (depending on DoD, T, power)**	4,000 cycles	4,000 cycles	4,000 cycles	4,000 cycles

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

MECHANICAL DATA	AKASOL SYSTEM 9 AKM 150 CYC	2P AKASOL SYSTEM 9 AKM 150 CYC	3P AKASOL SYSTEM 9 AKM 150 CYC	nP AKASOL SYSTEM 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)

AKASOL SYSTEM 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 German Developer and manufacturer of high-performance and high-energy lithium-ion battery systems for e-mobility applications as well as turnkey solutions. With more than 30 years of experience AKASOL provides the technically most mature and foremost technologies for traction battery systems in buses, commercial vehicles, rail and industrial vehicles, as well as in ships and boats – from prototype to serial production.