

AKASYSTEM

9 AKM 150 CYC



150 kW (peak) • 98 kW (cont)
98 kWh • 665 V (nom) • 560 kg*

Typical product configuration.
 Appearance and interfaces may vary.

AVAILABLE
 2022

*All technical data depending on HV Fuse, connector, DoD/SOC and cooling.

CERTIFIED ACCORDING TO AUTOMOTIVE STANDARDS.

- > Development according to ISO 26262
- > 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
- > 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	148 Ah	296 Ah	444 Ah	n*148 Ah
Energy	98 kWh	196 kWh	294 kWh	n*98 kWh
Technology	Li-Ion NMC	Li-Ion NMC	Li-Ion NMC	Li-Ion NMC
Nominal voltage	665 V	665 V	665 V	665 V
Voltage (max.)	756 V	756 V	756 V	756 V
Voltage (min.)	520 V	520 V	520 V	520 V
Discharging power max. (10s) ^A	150 kW	300 kW	450 kW	n*150 kW
Charging power max. (10s) ^A	150 kW	300 kW	450 kW	n*150 kW
Discharging power (cont.) ^A	98 kW	196 kW	294 kW	n*98 kW
Charging power (cont.) ^A	80 kW	160 kW	240 kW	n*80 kW
Power consumption in standby mode	10 W	20 W	30 W	n*10 W
Cycle life (depending on DoD, T, power) ^B	4,000 cycles	4,000 cycles	4,000 cycles	4,000 cycles

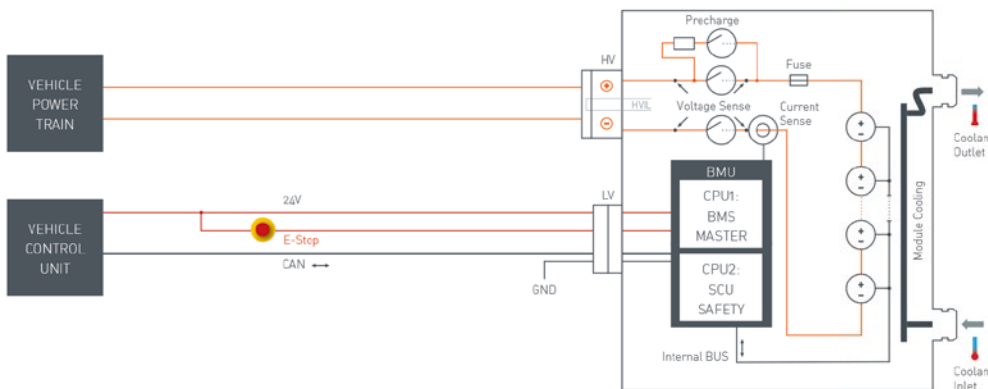
^A Peak rating depending on cable, connector, SOC, temperature and internal fuse type

^B Depending on SOH and 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)	400 mbar @ 600 l/h nom. 25 °C	400 mbar @ 1,200 l/h nom. 25 °C	400 mbar @ 1,800 l/h nom. 25 °C	400 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)	560 kg	1,120 kg	1,680 kg	n*560 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.

AKASYSTEM – SAFETY CONCEPT



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HIGH-PERFORMANCE BATTERY SYSTEMS.
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