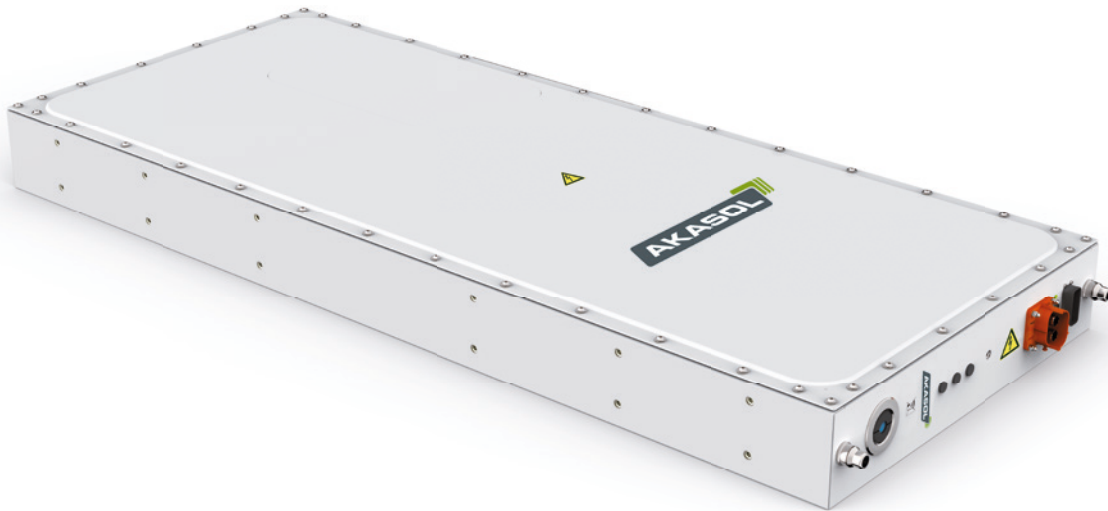


AKASYSTEM 150EM

**150 kW (peak) • 49 kW (cont) •
24.4 kWh • 661 V (nom) • 253 kg***

Typical product configuration. Appearance and interfaces may vary.

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



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
- › Multi-level short circuit protection on cell and system level
- › Additional operating safety due to redundant battery management system
- › Suitable for multi-string systems with full monitoring on single-string and full system level
- › Protection classes IP67 up to IP6K9K
- › Robust and proven control unit BMS master (integrated multi-core safety CPU)
- › Local and redundant safety control unit in all trays
- › Voltage and temperature monitoring
- › SOC/SOH analysis

SCALABLE. VALIDATED. DURABLE.

- › Freely scalable system with any number of OEM SYSTEMs
- › Flexible Packaging (conversion design, purpose design)
- › High energy and performance density
- › Easy system connectivity / ready-to-install (aligned connection points, standardized CAN bus, optional VDA/SAE cooling connections)
- › Excellent price-performance ratio as a result of the development for serial production
- › Liquid cooling for even temperature distribution
- › Compact and lightweight solution, significant volume reduction due to liquid cooling
- › Long service life due to active and passive thermal management
- › Exceptionally robust, maintenance-free operation
- › Serial production, EMI compliant
- › Passive cell balancing

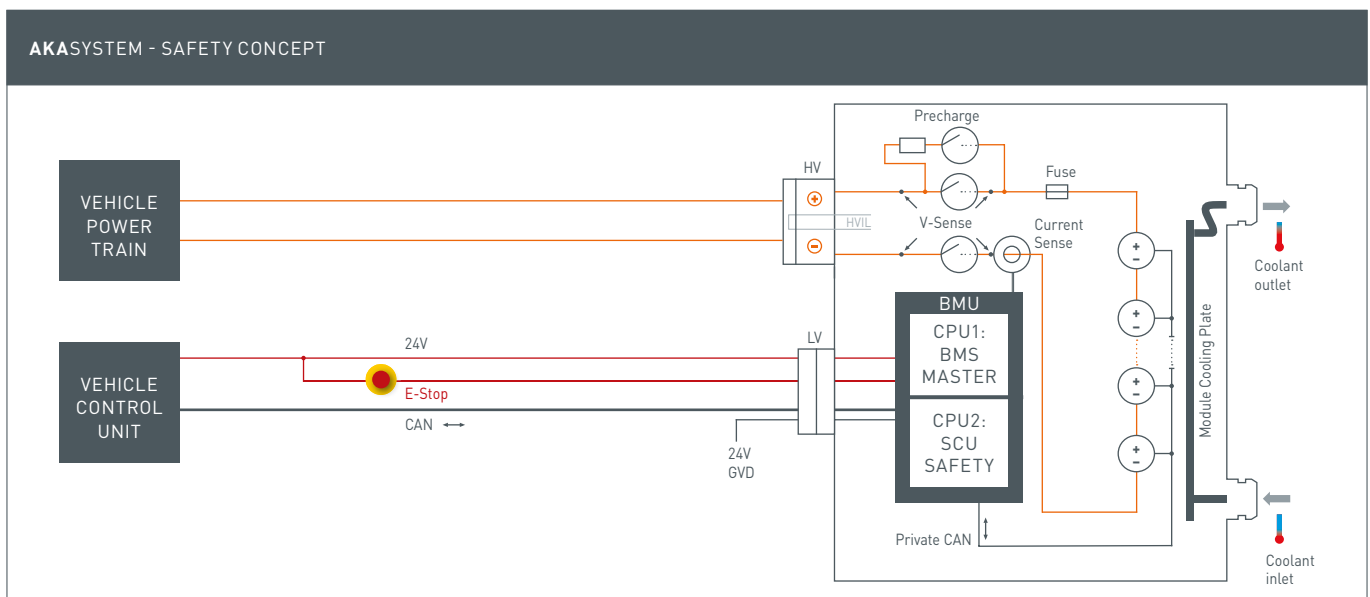
ELECTRICAL DATA	AKASOL SYSTEM 15 OEM 37 NMC	2P AKASOL SYSTEM 15 OEM 37 NMC	3P AKASOL SYSTEM 15 OEM 37 NMC	nP AKASOL SYSTEM 15 OEM 37 NMC
Cell connection in module	12s1p	12s1p	12s1p	12s1p
Capacity	37 Ah	74 Ah	111 Ah	n*37 Ah
Energy	24.4 kWh	48.8 kWh	73.2 kWh	n*24.4 kWh
Technology	Li-Ion NMC	Li-Ion NMC	Li-Ion NMC	Li-Ion NMC
Nominal Voltage	661 V	661 V	661 V	661 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)*	75...150 kW	150...300 kW	225...450 kW	n* 75...150 kW
Charging power max. (10s)*	37 kW	75 kW	112 kW	n* 37,5 kW
Continuous power (RMS)	37...50 kW	75...100 kW	112...150 kW	n* 37...50 kW
Internal HV-Fuse	200 A	2x200 A	3x200 A	n* 200 A
Power consumption in standby mode	10 W	20 W	30 W	n* 10 W
Cycle life (depending on DoD, T, power)	1600 - 3000 cycles	1600 - 3000 cycles	1600 - 3000 cycles	1600 - 3000 cycles

AKASOL SYSTEM n 15 OEM 37 NMC: freely scalable according to your application

*peak rating depending on fuse and cable / connector configuration

MECHANICAL DATA	AKASOL SYSTEM 15 OEM 37 NMC	2P AKASOL SYSTEM 15 OEM 37 NMC	3P AKASOL SYSTEM 15 OEM 37 NMC	nP AKASOL SYSTEM 15 OEM 37 NMC
Coolant pressure max.	2.5 bar	2.5 bar	2.5 bar	2.5 bar
Coolant pressure drop (Water/ glycol=50/50)	<500 mbar @ 200 l/h nom. 25°C	<500 mbar @ 400 l/h nom. 25°C	<500 mbar @ 600 l/h nom. 25°C	<500 mbar @ n*200 l/h nom. 25°C
Operating temperature range during discharging	-15 to 55 °C	-15 to 55 °C	-15 to 55 °C	-15 to 55 °C
Operating temperature range during charging	0 to 45 °C	0 to 45 °C	0 to 45 °C	0 to 45 °C
Recommended operating temperature	15 to 35 °C	15 to 35 °C	15 to 35 °C	15 to 35 °C
Protection classes	IP67 (IP6K9K possible)	IP67 (IP6K9K possible)	IP67 (IP6K9K possible)	IP67 (IP6K9K possible)
Weight (incl. contactor box) typical	253 kg	506 kg	759 kg	n*253 kg
Dimension (L x W x H) in mm (nominal)	1,700 x 700 x 150	1,700 x 700 x 305	1,700 x 700 x 460	1,700 x 700 x n*155

AKASOL SYSTEM n 15 OEM 37 NMC: freely scalable according to your application



AKASOL GMBH
HEAD OFFICE AND R&D-CENTER

Landwehrstrasse 55
64293 Darmstadt | Germany
T +49 6151 800500 | info@akasol.com

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