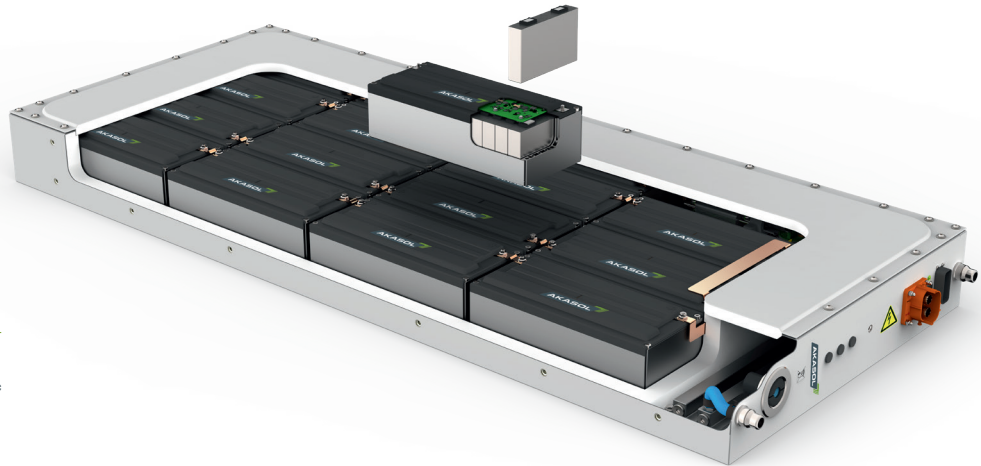


AKASYSTEM

15 OEM 37 PRC



150 kW (peak) • 50 kW (cont)
25 kWh • 661 V (nom) • 238 kg*

Typical product configuration.
 Appearance and interfaces may vary.

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



100	04 0123
10	01 8995

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, DNV-GL) 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 monitoring on single-string and full system level
- > Protection classes IP67 up to IP6K9K possible
- > Robust and proven control unit BMS master (integrated multi-core safety CPU)
- > SOC / SOH analysis
- > Single cell voltage monitoring and balancing

SCALABLE. VALIDATED. DURABLE.

- > Freely scalable system with any number of OEM SYSTEMs
- > 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 equal 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, stainless steel battery case
- > Serial production, IATF 16949 compliant
- > Passive cell balancing
- > Maintenance-free operation

ELECTRICAL DATA	AKASYSTEM 15 OEM 37 PRC	2P AKASYSTEM 15 OEM 37 PRC	3P AKASYSTEM 15 OEM 37 PRC	nP AKASYSTEM 15 OEM 37 PRC
Cell connection in module	12s1p	12s1p	12s1p	12s1p
Capacity	37 Ah	74 Ah	111 Ah	n*37 Ah
Energy	25 kWh	50 kWh	75 kWh	n*25 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) ^A	150 kW	300 kW	450 kW	n*150 kW
Charging power max. (10s) ^A	86 kW	172 kW	258 kW	n*86 kW
Continuous power discharge (RMS) ^A	50 kW	100 kW	150 kW	n*50 kW
Continuous power charge ^A	36 kW	72 kW	108 kW	n*36 kW
Internal HV-Fuse	200 A	2 x 200 A	3 x 200 A	n*200 A
Power consumption in standby mode	8 W	16 W	24 W	n*8 W
Cycle life ^B	> 3,000 cycles	> 3,000 cycles	> 3,000 cycles	> 3,000 cycles

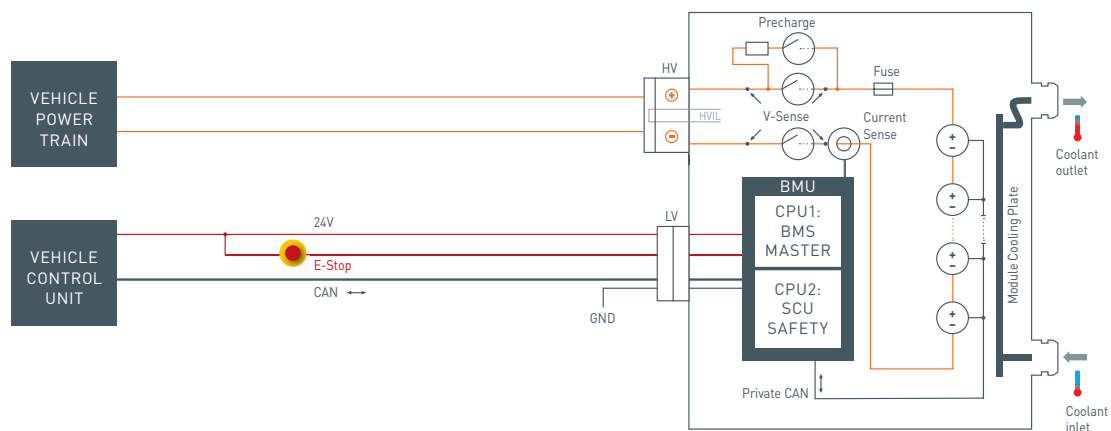
AKASYSTEM n 15 OEM 37 PRC: freely scalable according to your application

^A Depending on SOC and temperature ^B Depending on individual use profile, especially DoD, temperature and power

MECHANICAL DATA	AKASYSTEM 15 OEM 37 PRC	2P AKASYSTEM 15 OEM 37 PRC	3P AKASYSTEM 15 OEM 37 PRC	nP AKASYSTEM 15 OEM 37 PRC
Coolant pressure max.	1.5 bar	1.5 bar	1.5 bar	1.5 bar
Typical coolant pressure drop (water/glycol = 50/50)	400 mbar @ 300 l/h nom. 25 °C	400 mbar @ 600 l/h nom. 25 °C	400 mbar @ 900 l/h nom. 25 °C	400 mbar @ n*300 l/h nom. 25 °C
Operating temperature range	-25 to 58 °C	-25 to 58 °C	-25 to 58 °C	-25 to 58 °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	238 kg	476 kg	714 kg	n*238 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

AKASYSTEM n 15 OEM 37 PRC: freely scalable according to your application

AKASYSTEM – SAFETY CONCEPT



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by BorgWarner

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

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