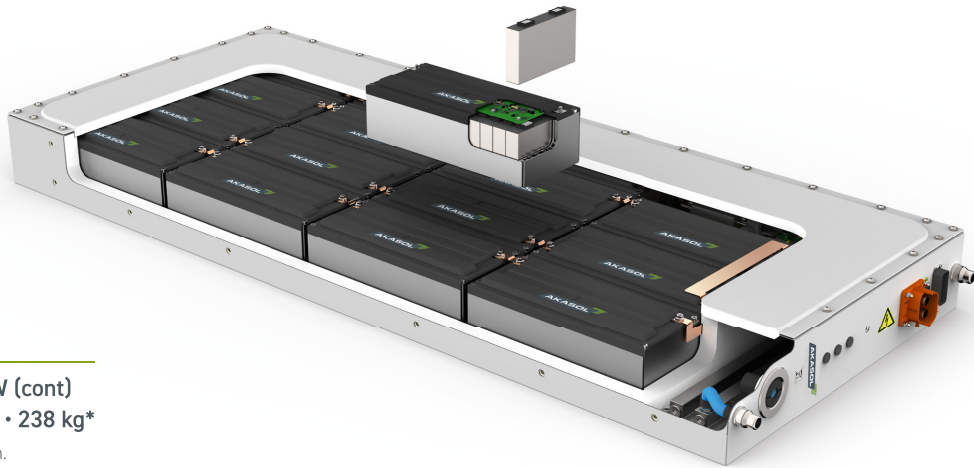


AKASYSTEM

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.

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 |

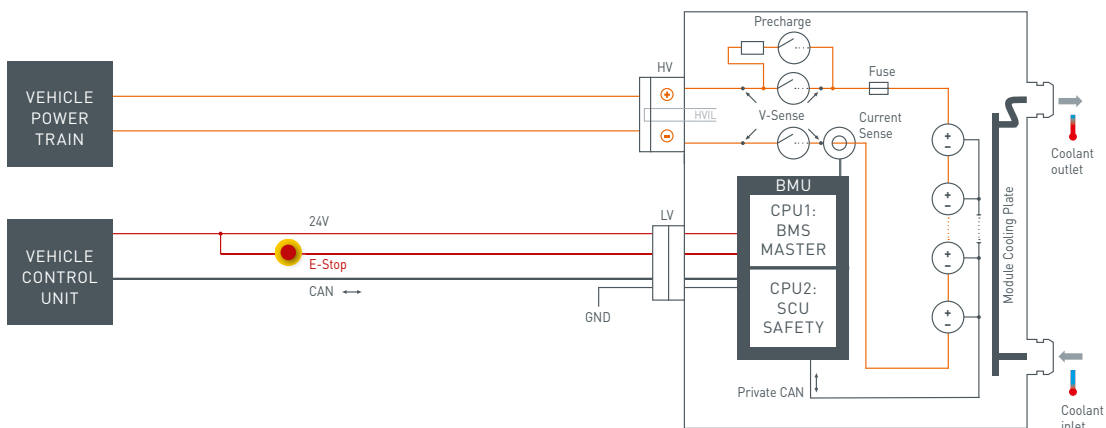
AKASYSTEM n 15 OEM 37 PRC: freely scalable according to your application

^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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