

Stationary Solutions

# High Power Charging Systems

**450 V • 850 V • 150 kW • 300 kW**

Typical product configuration.  
Appearance and interfaces may vary.

AVAILABLE

2021



## FEATURES

- › Simultaneous charging of up to 4 passenger cars
- › 2 x DC outlets Type CCS from 100 kW up to 300 kW
- › 2 x 22 kW AC Type 2
- › Independent charging of eBikes etc (230 V AC, 2 kW)
- › Integrated energy storage system of up to 280 kWh (PRC)
- › Future energy storage size: up to 400 kWh (CYC)
- › Integrated high efficient liquid thermal management
- › Remote monitoring and service
- › CE certified
- › Optimized for second life commercial vehicle battery
- › Homologated DC meter for payment

## TYPICAL USE MODES

- › Fast charge field operation without grid connection  
Recharge with DC high power overnight in depot
- › Fast charge field operation with grid connection  
Recharge with AC low power continuously

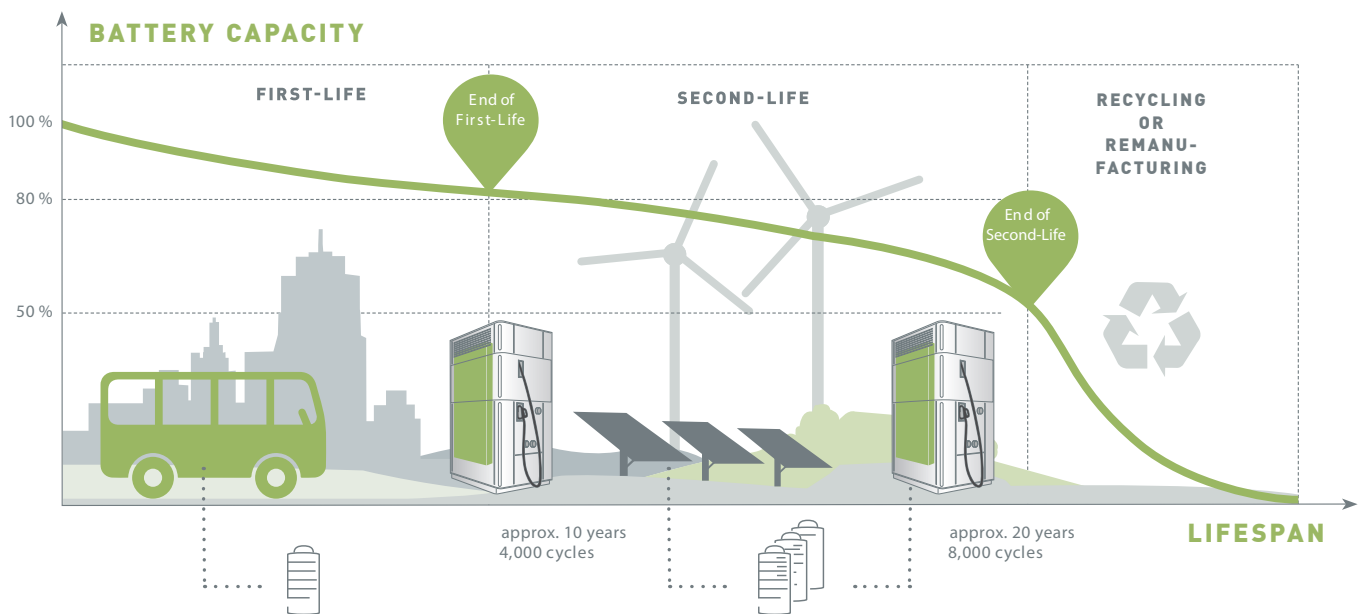
## OPTIONS

- › Fast DC charge current up to 400 A
- › DC charge power up to 300 kW
- › Recharge with DC high power via separate line and plug instead of CCS vehicle charge cable
- › AC constant battery recharge with 88 kW
- › AC constant battery recharge with galvanic isolated transformer
- › Full size 55" daylight high resolution screen
- › AC constant battery recharge with galvanic isolated transformer

ELECTRICAL DATA		CHARGING SYSTEM 450 V DC	CHARGING SYSTEM 450 V DC + AC	CHARGING SYSTEM 850 V DC	CHARGING SYSTEM 850 V DC + AC
DC High Power Charging	Voltage Range	150 – 500 V	150 – 500 V	150 – 850 V	150 – 850 V
	Current	2 x 200 A	2 x 200 A	2 x (200 – 400 A)	2 x (200 – 400 A)
	Power	2 x 100 kW	2 x 100 kW	2 x (150 – 300 kW)	2 x (150 – 300 kW)
AC Charging	Voltage Range	–	2 x 400 V	–	2 x 400 V
	Current	–	2 x 32 A	–	2 x 32 A
	Power	–	2 x 22 kW	–	2 x 22 kW
Battery Capacity	–	132 ... 264 kWh	132 ... 264 kWh	132 ... 400 kWh	132 ... 400 kWh
Cycle life <sup>A</sup>	–	> 3,000 cycles	> 3,000 cycles	> 3,000 cycles	> 3,000 cycles
Depot / Grid Charging	Depot DC Charging via separate plug	up to 300 kW	up to 300 kW	up to 300 kW	up to 300 kW
	AC Charging with galvanic isolation	400 V / 44 kW	400 V / 44 kW	400 V / 44 kW	400 V / 44 kW

<sup>A</sup> Depending on individual use profile, especially DoD, temperature and power

MECHANICAL DATA	CHARGING SYSTEM 450 V DC	CHARGING SYSTEM 450 V DC + AC	CHARGING SYSTEM 850 V DC	CHARGING SYSTEM 850 V DC + AC
Operating temperature range	-30 to 50 °C	-30 to 50 °C	-30 to 50 °C	-30 to 50 °C
Protection classes	IP54	IP54	IP54	IP54
Weight	2,500 ... 3,500 kg	2,500 ... 3,500 kg	2,500... 3,500 kg	2,500 ... 3,500 kg
Dimension (L x W x H) in mm (nominal)	1,550 x 1,100 x 2,500	1,550 x 1,100 x 2,500	1,550 x 1,100 x 2,500	1,550 x 1,100 x 2,500



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by **BorgWarner**

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.

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