ABL Supernova
DC fast charger with two charge points
220 / 150 / 75 kW

The ABL Supernova was developed by Wallbox Chargers specifically for commercial and public use in the DACH region. It operates reliably and can be flexibly adapted to the individual requirements of charge point operators thanks to its scalable performance. The ABL Supernova is available with three different output powers: 220, 150 or 75 kW. Its two charge points enable parallel charging of two vehicles with dynamic power distribution.

Powerful hardware

Six independent power modules enable straightforward servicing and maximum uptime. The ABL Supernova takes up very little space. A cable holder with automatic cable retraction is available as an accessory and can be retrofitted.

Simple installation & start-up

The ABL Supernova can be transported safely on a Euro pallet. Installation can be carried out using a forklift truck or crane. The ABL Supernova can be set up using the Supernova Local web interface. No additional software is required. A backend can be integrated via OCPP. Factory pre-commissioning is available as an option.

Intuitive charging experience for users

The ABL Supernova has a credit card reader and enables user authentication via RFID. Operation is simple and user-friendly thanks to the integrated display.

ABL Supernova

Further product advantages

	Maximum uptime for higher sales and customer satisfaction with low maintenance costs
	Simple operation and lower total cost of ownership
	Integration into all common charging networks and installation at any location
	Better customer loyalty and higher sales thanks to a seamless charging process and reduced complaints

General information

Model	ABL Supernova 220	ABL Supernova 150	ABL Supernova 75
Commodity code	85.04.40		
Packaging unit (PU)	1 unit		
Product dimensions (H×W×D)	2,000 × 714 × 453 mm (W: 868 mm with plug holders)		
Dimensions of packaging unit (H×W×D)	2,145 × 1,057 × 737 mm		
Product weight	400 kg	370 kg	340 kg
Packaging unit weight	430 kg	400 kg	370 kg
Items supplied	Supernova, installation kit, installation instructions, safety instructions, key		

Input / mains supply

External power supply	3-phase, maximum two conductors up to 95 mm^2 with cable lugs per phase		
Rated voltage	400 VAC ± 10% (3P+PE)		
Maximum rated current	350 A	235 A	120 A
Rated frequency	50 / 60 Hz		
Connection	Screw connection on the main switch		

Output / vehicle connection

Connection system	Two charge points with charging cables (5 m) and DC connectors CCS2+CCS2		
Output power	220 kW	150 kW	75 kW
Output voltage	150 to 1,000 V		
Max. charging current	400 A	400 A	200 A
Nominal efficiency	95%		
Power factor	> 0.98		
Total distortion factor	5%		

Protection / integrated components

Electrical Protection	Mains disconnection, surge arrester, MCB
Energy meter	AC MID & DC for each output, designed for commercial and public use in Germany and Austria
Overcurrent protection	Programmable
Temperature monitoring	Internal charging current reduction or shutdown
Cooling system	Active air cooling

Revision status ABL_Supernova_EN_b, 08/24

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Communication / interfaces

User interface	Vandal-proof 10-inch colour touch display (readable in sunlight), LED status lights
Access control	App (OCPP) / RFID (MI-FARE ISO/IEC14443A/B, ISO/IEC15693, ISO/IEC18000-3, FeliCa, NFC)
Payment system	Integrated hardware-ready solution in accordance with the EVA standard
EV connectivity	OCPP 1.6J, OCPP 2.0 (Hardware Ready), Plug & Charge (Hardware Ready)
Connectivity (external systems)	Ethernet, 2G/3G/4G/LTE, space for external router (DIN rail)
Communication protocol backend	OCPP 1.6J, OCPP 2.0 (Hardware Ready), Plug & Charge (Hardware Ready)
Interface for start-up	Local (via Ethernet and without additional software) and remote (via second integrated SIM card)
Diagnostics	Automatic diagnostic system

Standards / guidelines / protocols

Charging compliance	DIN 70121; IEC 61851-1; IEC 61851-23; IEC 61851-21-2; ISO 15118 Hardware Ready
Charging protocol	ISO15118 Hardware Ready, DIN SPEC 70121
Safety compliance	CE, IEC
EMC compliance	CE, IEC

Operating conditions

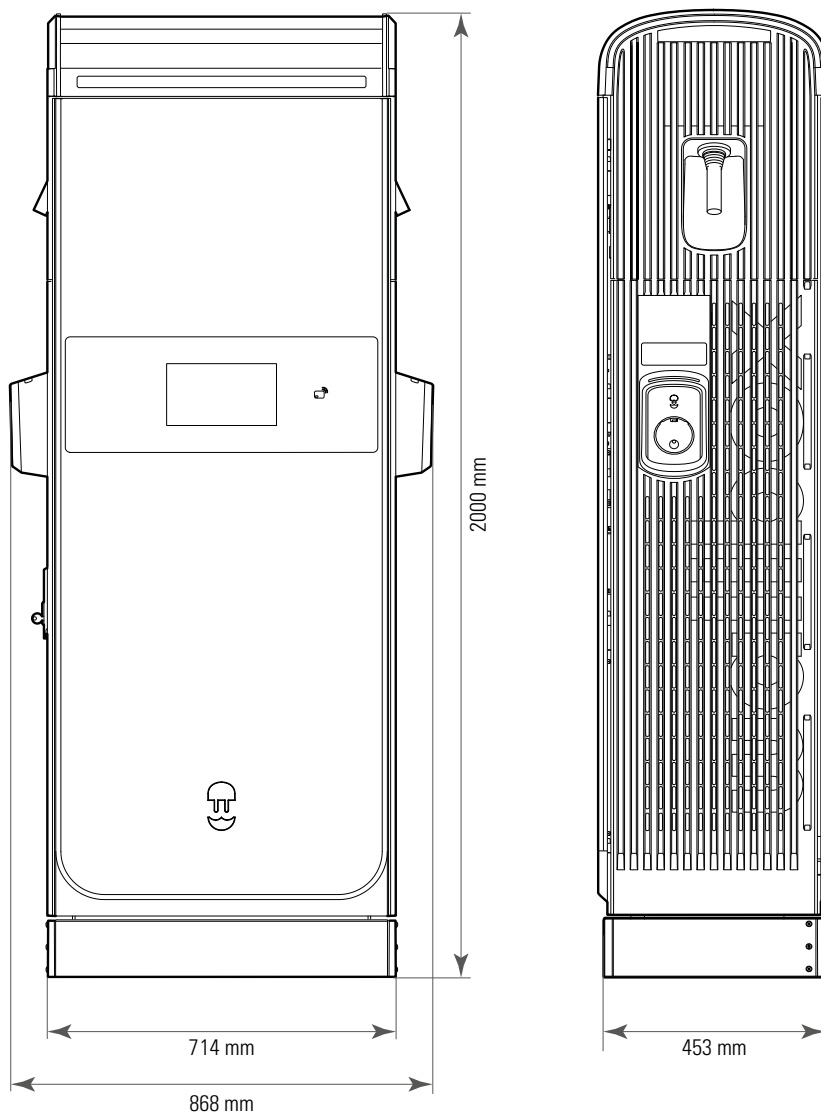|	
Storage temperature	-30 to 70°C
Operating temperature	-30 to 50°C
Relative humidity	5 to 95%, no condensation
Class of protection	I
Overvoltage category	III
Degree of pollution	3
Degree of protection (housing)	IP54
Impact strength	IK10
Operating noise level	< 68 dBA @ 1 m at maximum output power (front)
Maximum elevation	≤ 2,000 m AMSL
Power loss (idle)	< 60 W

Housing

Type	Free-standing housing
Fixing type	Floor mounting
Material (housing / cover)	Plastic / steel
Colour (housing / cover)	RAL 7021, RAL 7047, RAL 9023
Locking mechanism	Cylinder lock

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Optional equipment features

Branding options	Inlay with company logo (front), full charger vinyl
Cable management	Automatic cable retraction

Dimensioned drawing

2000 mm

714 mm

868 mm

453 mm

Subject to change: All performance characteristics, technical and other specifications are subject to change without prior notice.