

# Supernova+

Calibration law compliant DC fast charger with two charge points  
220 | 160 | 80 kW

The calibration law compliant 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 and individual branding options. The Supernova+ is available with three different output powers: 220, 160 or 80 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. 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





Supernova+ can be transported safely on a Euro pallet. Installation can be carried out using a forklift truck or crane. It 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 basic version of the Supernova+ is prepared for the integration of an EVA-compliant card reader and enables user authentication via RFID. Operation is simple and user-friendly thanks to the integrated display. As an additional feature, Supernova+ is also available in a version with an AFIR-compliant Payter payment terminal, which enables contactless payment of charging processes and a backend connection.



## 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 via OCPP 1.6
- 
 Calibration law compliant charging

**GENERAL INFORMATION**

Model range	Supernova+
Commodity code	850440
Packaging unit (PU)	1 unit
Product dimensions (H×W×D)	2,000 × 714 × 453 mm (W: 868 mm with plug holders)
Dimensions with Supernova+ CMS (H×W×D)	2,136 × 1,219 × 453 mm
Product weight	Supernova 220+: 400 kg   Supernova 160+: 370 kg   Supernova 80+: 340 kg
Weight PU	Supernova 220+: 430 kg   Supernova 160+: 400 kg   Supernova 80+: 370 kg
Items supplied	Supernova, installation kit, installation instructions, safety instructions, key

**INPUT / MAINS SUPPLY**

External power supply	2 × 150 mm <sup>2</sup> per phase + 2 × 95 mm <sup>2</sup> for PE
Rated voltage	400 VAC ± 10% (3P+PE)
Maximum rated current at maximum output power	Supernova 220+: 350 A   Supernova 160+: 250 A   Supernova 80+: 125 A
Rated frequency	50 / 60 Hz

**OUTPUT / VEHICLE CONNECTION**

Connection system	Two charge points with charging cables (5 m) and DC connectors CCS2+CCS2
Output power	Supernova 220+: 220 kW   Supernova 160+: 160 kW   Supernova 80+: 80 kW
Output voltage	150 to 1,000 V
Maximum charging current	Supernova 220+: 400 A   Supernova 160+: 400 A   Supernova 80+: 200 A
Nominal efficiency	95%
Power factor	> 0.98
Total distortion factor	5%

**PROTECTION / INTEGRATED COMPONENTS**

Electrical Protection	Mains disconnection, surge arrester, MCCB
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 Connectivity	Active air cooling

**COMMUNICATION / INTERFACES HOUSING**

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)
Interface for start-up	Local (via Ethernet and without additional software) and remote (via second integrated SIM card)
Diagnostics	Automatic diagnostic system

**PAYMENT SYSTEM\***

Supported protocols	EMVCo. L1 v3.0 certified; ISO14443 Type A & B (T=CL); Mifare Classic; Desfire; ISO18092: NFC support
Supported standards	American Express, Apple Pay, Diners, Discover, Google Pay, Maestro, MasterCard, Samsung Pay, TROY, VISA

\* Only variants with Apollo Payter Terminal

**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
In acc. with MessEV Modul B	

**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

## MODEL OVERVIEW

	Product number	Manufacturer number	EAN number
Basic variant, prepared for integration of an EVA compliant credit card reader			
Supernova 220+	100000616	DCF4-401-C4420000-WB1	8436607545859
Supernova 160+	100000612	DCF4-411-C4420000-WB1	8436607545897
Supernova 80+	100000608	DCF4-421-C4420000-WB1	8436607546672
Variant with company logo inlay (front), full charger vinyl			
Supernova 220+	100000618	DCF4-401-C4420000-WV3	8436607545866
Supernova 160+	100000614	DCF4-411-C4420000-WV3	8436607545903
Supernova 80+	100000610	DCF4-421-C4420000-WV3	8436607546689
Variant with integrated Payter Apollo terminal for contactless payment			
Supernova 220+	100000617	DCF4-401-C4500000-WB1	8436607545873
Supernova 160+	100000613	DCF4-411-C4500000-WB1	8436607545910
Supernova 80+	100000609	DCF4-421-C4500000-WB1	8436607546696
Variant with company logo inlay (front), full charger vinyl and Payter Apollo for contactless payment			
Supernova 220+	100000619	DCF4-401-C4500000-WV3	8436607545880
Supernova 160+	100000615	DCF4-411-C4500000-WV3	8436607545927
Supernova 80+	100000611	DCF4-421-C4500000-WV3	8436607546702

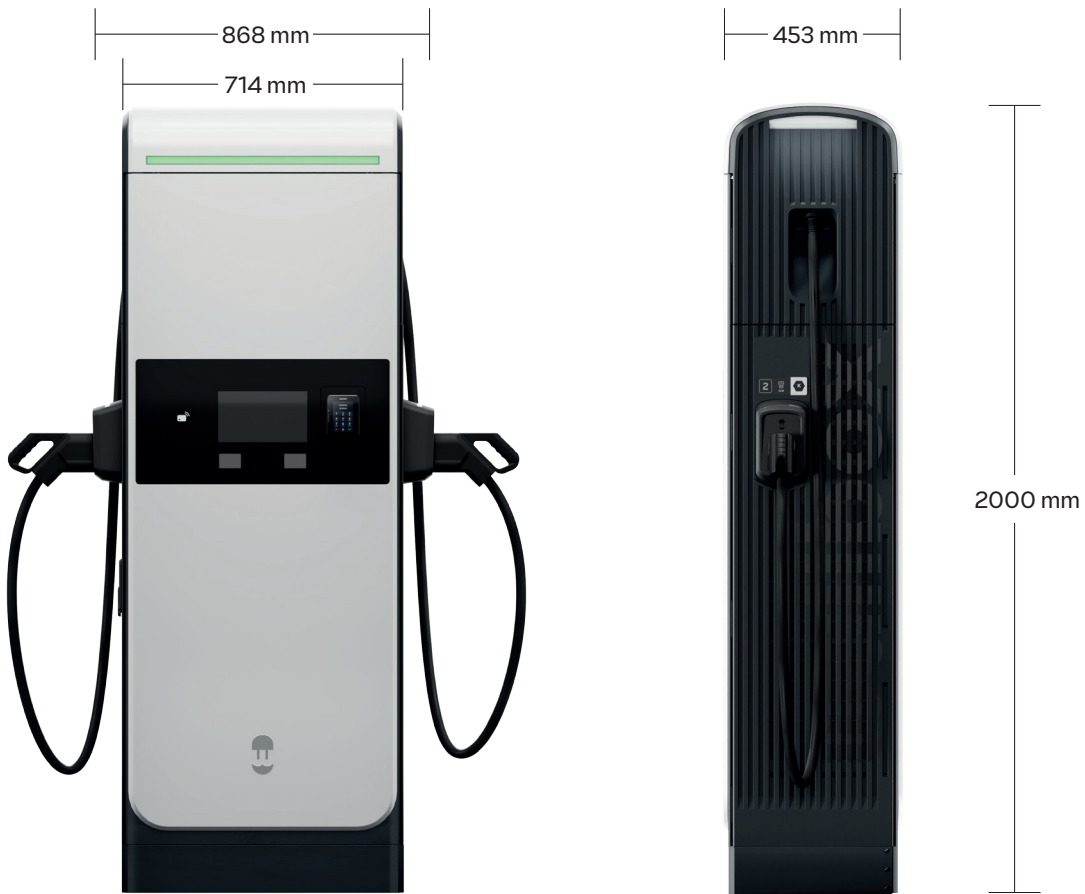
## ACCESSORIES



Supernova Cable Management System

100000592

## PRODUCT DIMENSIONS



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