

wallbox 



# Supernova

Fast charging you can rely on

SUPERNOVA

## Fast charging you can rely on

Supernova is a full fast-charging solution designed under four key principles that make it profitable, easy to operate and scalable.



### Reliability

Maximizing uptime to increase revenue and customer satisfaction while reducing maintenance costs. From our product design focused on reliability and serviceability to the use of real-time data to optimize maintenance and management.



### Efficiency

Deliver more power with optimal resource utilization. Supernova requires up to half the total investment compared to similar chargers, is a leader in terms of energy efficiency and ensures easy installation and operation.



### User centricity

Thanks to our end-user understanding, gained through years of delivering home charging solutions, we provide the best possible fast charging experience. A seamless experience attracts more drivers, increases turnover and reduces customer callbacks.



### Flexibility

Supernova integrates into any existing charging network and provides a future-proof solution, offering simple alternatives to increase its power as well as compatibility with today's and tomorrow's electric vehicles.



## RELIABILITY

# Designed for maximum uptime and reduced maintenance

Our experience and dedication to electric vehicle charging allows us to insource R&D, industrialization and production, which occurs just 5 minutes from our European headquarters. This gives Wallbox unprecedented control over the entire value chain to **ensure the highest quality of all components as well as a seamless integration between hardware and software.**

Based on our patented Quasar technology, it includes **six independent power modules** to ensure uptime even in the unlikely case of a module failure.

**PowerFlow** is our self-learning algorithm that allocates power per module when EVs demand less than nominal power. This results in a homogenous demand per module, **reducing wear and increasing lifetime.**

## And with greater serviceability and connectivity

- ✓ Real-time data simplifies maintenance with **remote diagnosis and service.**
- ✓ **Predictive approach,** thanks to a wide range of sensors that detect and correct small faults before they cause a failure.
- ✓ Detailed diagnostic codes with an appropriate action plan to **make service simple and efficient.**



## EFFICIENCY

# Deliver more power with optimal resource utilization

## Product

Up to **half the total investment** than similar competitors.

Our patented Quasar technology is compact and affordable and makes Supernova a leader in energy efficiency, **reducing operational costs**.

**PowerFlow** is our self-learning algorithm that enhances our innovative six-module approach. It allocates power per module to **optimize energy efficiency** even when EVs demand less than nominal power.

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## Transport & Installation

**Light and modular design for easier and effortless transportation and installation.**

**Simplified installation options** include forklift capability, eliminating the need for a crane. Our comprehensive training program simplifies the process for all partners and installers.

**Customized software configurations** can be performed in the production line, with a final and simple web interface process on site (no specific software needed).

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## Maintenance

**Efficient, low-cost maintenance** is achieved thanks to Supernova's comprehensive design, a wide array of sensors, real-time data and round-the-clock connectivity:

- ✓ All major components and modules are lightweight and easy to maintain or replace, with convenient access from three sides
- ✓ Remote diagnostics and repairs
- ✓ Preventive and corrective maintenance adapted to real operating conditions



## USER CENTRICITY

# Provide a seamless experience to customers

**Interactive light system** to guide drivers through the entire process, from finding a free spot to returning the plug to its holster.

**10" color touchscreen** with intuitive design, concise information and minimum interactions required to initiate charging.

**Ergonomically accessible and ready for ADA compliance.** Our retractable cable management system\* prevents floor contact and ensures that the installation remains clean.

**Numerous payment options.** Screen QR Code and credit card reader\* with worldwide acceptance. The 3-in-1 credit card reader supports contactless (including apple/google pay), chip and magnetic.

Authentication options: RFID or via OCPP interface

Provides a faster charge with our innovative power extension that allows two 65 kW units to deliver **up to 130 kW** to a single vehicle.\*\*



*\* Optional feature*

*\*\* Available for the 65 kW NA version*

## FLEXIBILITY

# Adapt to current and future needs

Simultaneous charging of 2 EVs with dynamic power management. CCS & CHAdeMO charging cables.

Easy **integration** with any **existing charging network** through OCPP.

**Over-the-air software** updates ensure up-to-date functionality and compatibility with current and future electric vehicles.

Power Extension pairs two 65 kW-units to deliver up to 130 kW to 1 EV\*\*. Adapt to varying demand with minimal additional investment, **increasing customer satisfaction and utilization rate.**

Our modular design supports a future upgrade from 65 to 130 kW, allowing to invest gradually and defer operating costs to match the growing demand.



\*\* Available for the 65 kW NA version

## SUPERNOVA PORTFOLIO

# Simple solutions to increase power as demand grows

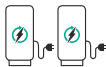
### Supernova North America

Available with 65 or 130 kW  
(three or six independent  
power modules)



### Power Extension

Two 65 kW-units connected via DC link  
**Up to 130 kW** to one EV



### Power Upgrade

Our modular design supports a future  
upgrade from **65 to 130 kW**, allowing to  
invest gradually and defer operating  
costs to match the growing demand.



## SUPERNOVA NORTH AMERICA

# Technical specifications

<b>DC Connectors:</b>	CCS1, CCS2, CHAdeMO
<b>Charging Protocol:</b>	ISO15118 (including Plug&Charge) / CHAdeMO
<b>Cable Length:</b>	118.1 In, 196.9 In
<b>Cable Management:</b>	Auto retractable system <sup>[1]</sup>
<b>Output Power:</b>	65 or 130 kW
<b>Nominal Efficiency:</b>	Up to 97%
<b>Power Factor:</b>	> 0.98
<b>THD:</b>	5%
<b>Output Voltage:</b>	150-920 V
<b>Output Current:</b>	Up to 325 A
<b>Supply Input:</b>	400-480 V, 200 A, 50-60 Hz
<b>Electrical Protections:</b>	Grid disconnection, MCB, Surge Arrestor

<b>Environmental Ratings:</b>	NEMA 3R, IK10, 2000 m altitude
<b>Operating Temperature:</b>	-31 °F to 122 °F
<b>Cooling System:</b>	Active air cooling
<b>Operational noise level:</b>	< 55 dBA
<b>Humidity:</b>	5% to 95% Non-condensing
<b>Dimensions:</b>	78.7 In x 28.1 In x 17.8 In
<b>Weight:</b>	551.2 lbs

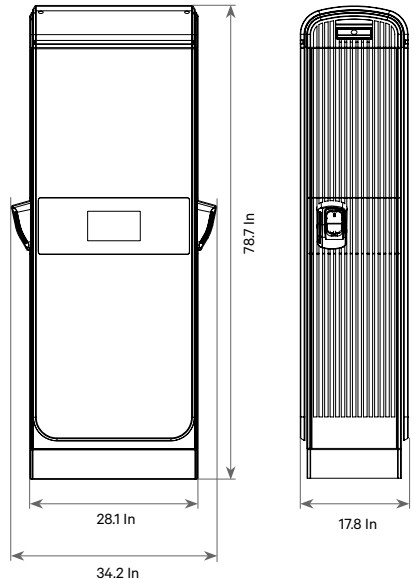
<b>Branding Options:</b>	Artwork Templates
<b>Connectivity:</b>	Ethernet, 2G/3G/4G/LTE, Space for external router (DIN rail)
<b>Backend Communication:</b>	OCPP 1.6J
<b>Diagnostics:</b>	Auto-diagnostics system

<b>User Interface:</b>	10" Anti-vandal Colour Touch Display (sunlight readable), LED status lights
<b>Authentication:</b>	App (OCPP) / RFID (MI-FARE ISO/IEC14443A/B, ISO/IEC15693, ISO/IEC18000-3, FeliCa, NFC)

<b>Ad-Hoc Payment:</b>	Credit Card Reader* <sup>[1]</sup> : 3-in-1 contactless, chip, magnetic, Screen QR code
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<b>Metering:</b>	AC MID <sup>[1]</sup> , DC 1% Meter (CA Meter laws) <sup>[1]</sup>
<b>Charging Compliance:</b>	CCS (DIN 70121; ISO15118, SAE J1772). IEC 61851-1; IEC 61851-23; IEC 61851-21-2. CHAdeMO 1.2 Certified
<b>Safety &amp; EMC Compliance:</b>	IEC, UL 2202, UL 2231-1, UL 2231-2, CSA 1071, FCC part 15
<b>Cybersecurity Compliance:</b>	LINCE, Common Criteria

Specifications are subject to change to improve design, function, or otherwise. [1] Optional.



**Want to learn more about Supernova?**

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