

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 with 97% 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.

All handled elements are **ergonomically accessible and wheelchair compliant**. 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 connects two chargers **to deliver up to 100 kW**.



\*Optional feature

## FLEXIBILITY

# Adapt to current and future needs

CCS & CHAdeMO charging cables. A future hardware and software update will allow simultaneous charging of 2 EVs with dynamic power management.

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.

Adapts to varying demand with minimal additional investment in multiple charger locations by pairing two 60 kW-units to deliver up to 100 kW to 1 EV. This **increases customer rotation and utilization rate**.

Compatible with a future **power upgrade up to 100 kW** by simple module retrofitting.



## SUPERNOVA PORTFOLIO

# Simple solutions to increase power as demand grows

### Supernova

Current solution delivers 60 kW  
via six independent power modules

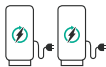
2021



### Power Extension

Two 60 kW-units connected via DC link  
**Up to 100 kW** to one EV

1st half 2022



### Power Upgrade

Compatible with a future power  
upgrade **up to 100 kW** by simple  
module retrofitting.

2nd half 2022



SUPERNOVA

# Technical specifications

**DC Connectors:** CCS2, CHAdeMO  
**Charging Protocol:** ISO15118 (including Plug&Charge\*) / CHAdeMO

**Cable Length:** 3m, 5m[1]  
**Cable Management:** Auto retractable system [1]

**Output Power:** 60 kW  
**Nominal Efficiency:** 97%  
**Power Factor:** > 0.98

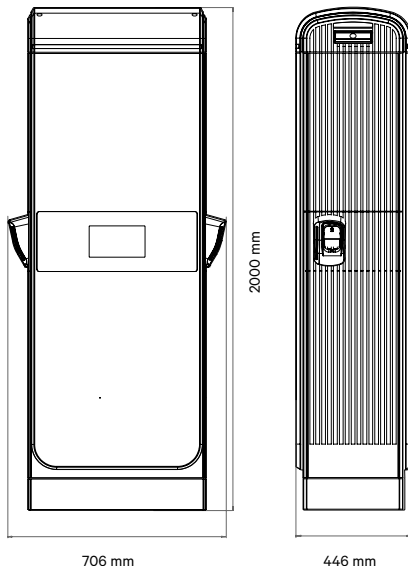
**THD:** 5%  
**Output Voltage:** 150-500V  
**Output Current:** 150A

**Supply Input:** 400V ± 10%, 91A, 50Hz  
**Electrical Protections:** Grid disconnection, MCB, Surge Arrestor

**Environmental Ratings:** IP54, IK10, 2000 m altitude  
**Operating Temperature:** -35°C to 50°C (no derating)

**Cooling System:** Active air cooling  
**Operational noise level:** < 55dBA

**Humidity:** 5% to 95% Non-condensing  
**Dimensions:** 2000 x 706 x 446 mm  
**Weight:** 250kg



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

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

**Ad-Hoc Payment:** Credit Card Reader\* [1]: 3-in-1 contactless, chip, magnetic, Screen QR code

**Metering:** AC MID [1], DC Eichrecht (German calibration law)\* [1]  
**Charging Compliance:** CCS (DIN 70121, ISO15118), IEC 61851-1, IEC 61851-23, IEC 61851-21-2, CHAdeMO 1.2 Certified

**Safety & EMC Compliance:** CE, IEC  
**Cybersecurity Compliance:** LINCEx

[1] Optional, (\*) Contact your sales representative regarding availability

**EGAT + wallbox** 

AUTORIZED DISTRIBUTOR IN THAILAND

DEALER IN THAILAND

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