

High-Power Charger

B-HPC 1.6 - 350kW



The B-HPC (Battery-Integrated High-Power Charger) delivers ultra-fast 350 kW EV charging, even with a grid connection as low as 100 kW. Its battery-buffered system, powered by Nerve Switch® technology, ensures efficient and intelligent charging by managing each battery cell independently.

With a low grid connection requirement, the B-HPC reduces infrastructure demands while optimizing charging performance. Its plug-and-play design allows for quick and easy deployment without the usual complexities of civil works.

Designed and developed in Denmark.

B-HPC specifications

One outlet in operation	
Max charging power	1 x 350 kW@1000 V 1 x 300 kW@800 V 1 x 200 kW@400 V
Two outlets in operation	
Max charging power	2 x 175 kW@1000 V 2 x 150 kW@800 V 1 x 150 kW@400 V

Input/power connection

Grid type	3 phases + N + PE
Voltage	400 V AC
Frequency	50 Hz
Grid Inverter capacity	100 kW
Minimum current	32 A
Nominal current	160 A

General

Manufacturer	Nerve Smart Systems A/S
Dimensions	2260 x 2940 x 1260 mm
Weight	Approx. 3000 kg
Battery capacity	200 kWh
Battery net capacity	200 kWh
IP Rating	IP 44 (Outdoor)

Certifications

Battery	EN 62619, UN38.3 EN 60730 Battery Directive 2006/66/EC
System	EN 63000, T.F.3.3.1
Charger	EN 61851-1/-21-2/-23/-24 EN 62196-3, ISO 15118

Interface

User Interface (GUI)	2 x 10,1" Touch Display
Cloud connection	3G/4G/5G
Cloud API	NSS gRPC
Charge Point Protocol	OCPP 1.6J
Payment	APP, QR Code, NFC Card reader

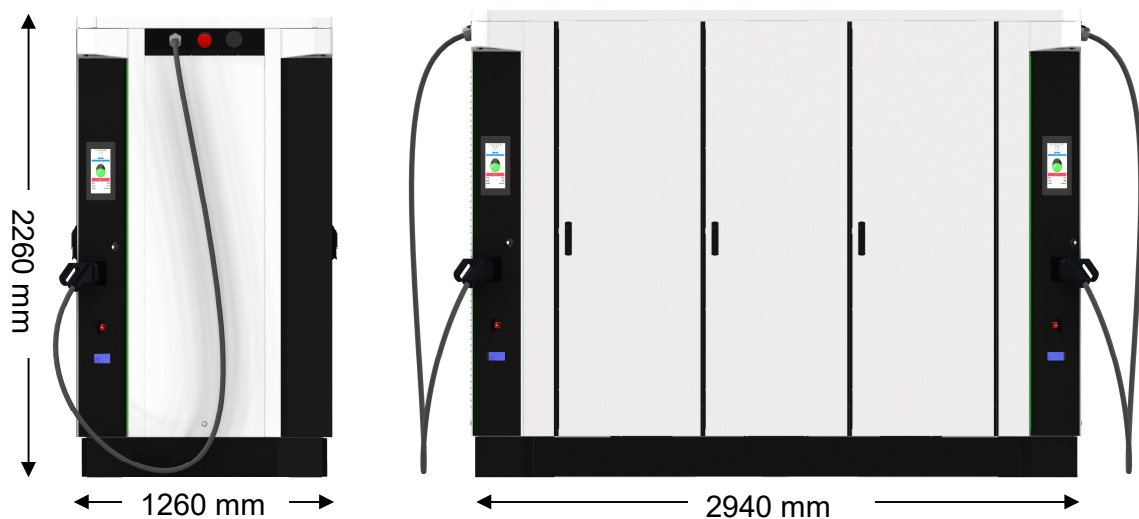
Operating conditions

Temperature range	-25 to +40 °C
Noise Emission	≤67 dB (A)
EMC	IEC 61000 class A
Altitude	<2000 m

Essential Insights

- Plug 'n' play: Can use existing 32 – 160 A AC grid connection
- Ultra-fast charging with up to 350 kW, CCS2 connectors
- OCPP 1.6j connection, with option for migration to OCPP 2.01
- No civil work required
- Interface for intelligent battery and vehicle charging
- No downtime: Automatic and seamless battery State of Charge reset
- Remote monitoring via Cloud connection
- 10.1" colour touch display with customizable Graphical User Interface (GUI)
- Card payment / NFC reader if needed - handled by Charge Point Operator (CPO)
- Flexible charging handle positions

Mechanical dimensions



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