

EVBOX

PowerHub



Scalable Centralized Power Unit for High-Power EV Charging

EVBOX PowerHub is a centralized power conversion and distribution unit designed to support high-power DC charging infrastructure.

It enables efficient and flexible energy delivery to multiple charging points, with advanced power management capabilities.

Ideal for highway charging hubs, urban stations, and fleet depots

- Up to 480 kW total output power
- Up to 6 independent DC outputs
- Wide voltage range: 150–1000 VDC
- Flexible power allocation:
 - Static (fixed per output)
 - Dynamic (optional load balancing)
- Modular architecture (40 kW power modules)
- Designed for remote DC dispensers
- Easy maintenance

Technical Datasheet

DC Outputs

Maximum output power:	Up to 480kW
Number of outputs:	up to 6
Power allocation:	Static (fixed configuration) Dynamic (optional, via switching matrix)

DC Outputs

Voltage range:	150 - 1000VDC
Max current per output:	500A

AC Input

Type:	Three-phase
Voltage range:	360–530 VAC
Frequency:	50/60 Hz
Power factor:	>0.99
Efficiency:	Up to 97.5%
Nominal input current:	725A @400VAC; 600A @480VAC
SCCR:	75kA
Surge protection:	Type 2 + 3

Structure & Physical Properties

Enclosure material:	Powder coated alloy, galvanized & stainless steel
Enclosure ratings:	IP54 / IK10
Noise level:	<52dBA @3m; ISO 3744:1995 class 2
Operating temperature:	-30°C to +55°C
Storage temperature:	-40°C to +70°C
Operating humidity:	10%–95% non-condensing
Storage humidity:	10%–95% non-condensing
Ambiance:	Non-explosive area
Cooling:	Forced air
Max installation altitude:	2000 m
Dimensions:	600 x 2520 x 1000 mm
Weight:	<900 kg
Colors:	Traffic White (RAL 9016); Black Grey (RAL 7021); Jet Black (RAL 9005)
EMC classification:	Class A; EN 61000-6-4; EN 61000-6-2; IEC 61851-21-2

Connectivity

Network connection:	LTE/UMTS/GSM, Ethernet
Backend protocol:	OCPP 1.6J, OCPP 2.0.1

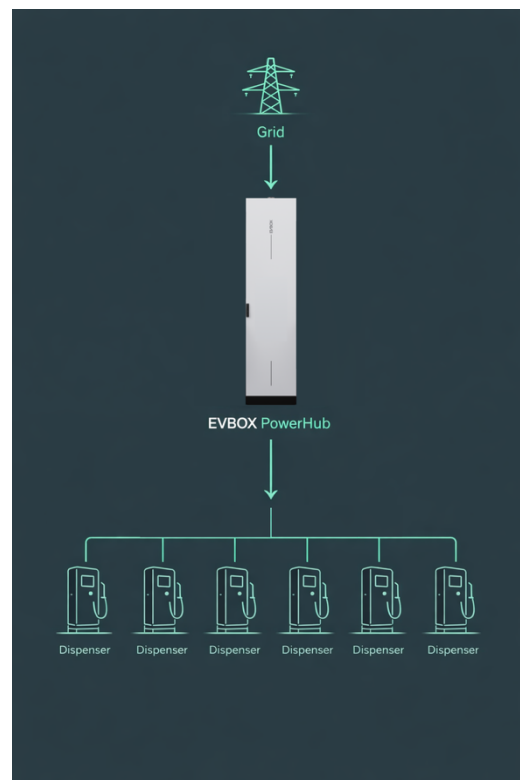
Certification & Compliance

CE, UKCA, ISO/IEC 27001; IEC 61851; EN 50470; RoHS
Directive 2014/35/EU (LVD) Directive 2014/30/EU (EMC)
Directive 2014/53/EU (RED) & EN 18031
Directive 2011/65/EU (RoHS) (as amended by 2015/863/EU)
IEC 61851-1: 2017; EN 61851-1: 2019 / IEC 61851-23: 2014; EN 61851-23: 2014/C1: 2016 / IEC 61851-21-2: 2018; EN 61851-21-2: 2021
Class A according to EN 50470, with accuracy better than $\pm 2\%$, two possible
- Eichrecht (Germany and Austria)
- MID / LNE (LNE: for France; MID: for the rest of Europe)

Specifications and performance data contain average values within existing specification tolerances and are subject to change without prior notice.

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Dispensers

EVBox Depot Box



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