

ULTRACHARGE 800

Intelligent hyper EV charging solution

MODELS

640kW

720kW

800kW



UltraCharge 800 delivers up to 800A / 1000V with advanced liquid-cooled power modules and cables for quiet, durable performance. Scalable up to 1.6MW, it supports a wide range of EVs, from cars to heavy-duty trucks, buses, and boats. Power is dynamically distributed in 80kW increments across up to 10 dispensers, maximising efficiency. Compact footprint of the dispensers fit seamlessly near parking spaces, while full integration with PV and ESS systems future-proofs your charging infrastructure and supports the transition to sustainable energy.

The power cabinet is available in three standard power configurations; choose from 640kW, 720kW or 800kW.

The perfect futureproof and cost-effective solution for public, fleet, marina and highway infrastructure deployment.

- Plug & charge, mobile app, or RFID controlled charging
- Offers up to 10x CCS DC charging outputs per Power Cabinet
- Upgradeable power modules
- Single liquid-cooled 650A (Boost 800A) or dual air-cooled 375A (Boost 500A) Dispensers
- Liquid-cooled 800kW Power Cabinet
- OCPP 1.6 compliant / OCPP 2.0.1 - integrates with any CPMS
- Over-the-air firmware and software updates
- Intelligent dynamic power sharing
- 10.1" HD user interface screen
- 4G / Wi-Fi / Ethernet connectivity
- 97% Peak efficiency
- Optional RFID / NFC / contactless card payment terminal
- Conforms with PAS 1899 accessible charging standard

Specifications

Power Cabinet

- Bridge multiple cabinets up to 1.6MW
- Liquid cooling
- Lower decibel operation
- Modular design
- Full matrix power allocation
- Supports up to 10 charging connectors
- Support parallel expansion



Technical Data

Input	• AC Input Voltage – 400V AC (+/-15%) • Rated Input Current- 1227A • Input Frequency – 55±10Hz • Power Factor – ≥0.98 (50%-100% Rated Power), ≥0.95 (20%-50% Rated Power) • THD – ≤5% (50%-100% Rated Power) • Grounding type – TN-S
Output	• 800kW • DC Output Voltage Range – 150-1000V DC • Constant Power Output Range – 300-1000V DC • Maximum Output Current – 2666A • Number of Output Circuits – 10 • Peak Efficiency – ≥97%
Communications	• 4G • WiFi • Ethernet • Bluetooth • OCPP 1.6 • OCPP 2.0.1 • External Communication Interface – Ethernet, RS485, CAN
Protection	Leakage protection Input short circuit protection Input overvoltage protection Input undervoltage protection Input phase loss protection Output overvoltage protection Output short circuit protection Output overcurrent protection Output reverse connection protection Lightning protection Grounding protection Over temperature protection Contactor adhesion protection Insulation detection protection Emergency stop protection Door opening protection Water immersion protection Smoke alarm
Dimensions	800mm x 2150mm x 1700mm (W x H x D)
Environmental	• Ingress Protection – IP55 • Operating Temperature – -40°C-+50°C • Storage Temperature – -40°C-+70°C • Operating Humidity – 0-95% RH • Cooling Method – Liquid Cooled • Operating Altitude – ≤2000m, Derating above 2000m • Noise Level – ≤55dB Silent Mode, ≤65dB Standard Mode
Materials	• Body – Stainless steel • Finish – All-weather powder-coated finish
Unit Colour	Grey Other colours and branding options are available upon request
Certifications & Compliances	• Standards – IEC 61851-1, IEC 61851-21-2, IEC 61851-23, IEC 61851-24 • ENA Database • Certifications – CE, UKCA, TUV, Eichrecht
Use Life	10 years
Warranty	2 years (extended warranty available upon request)

Specifications

Dispensers

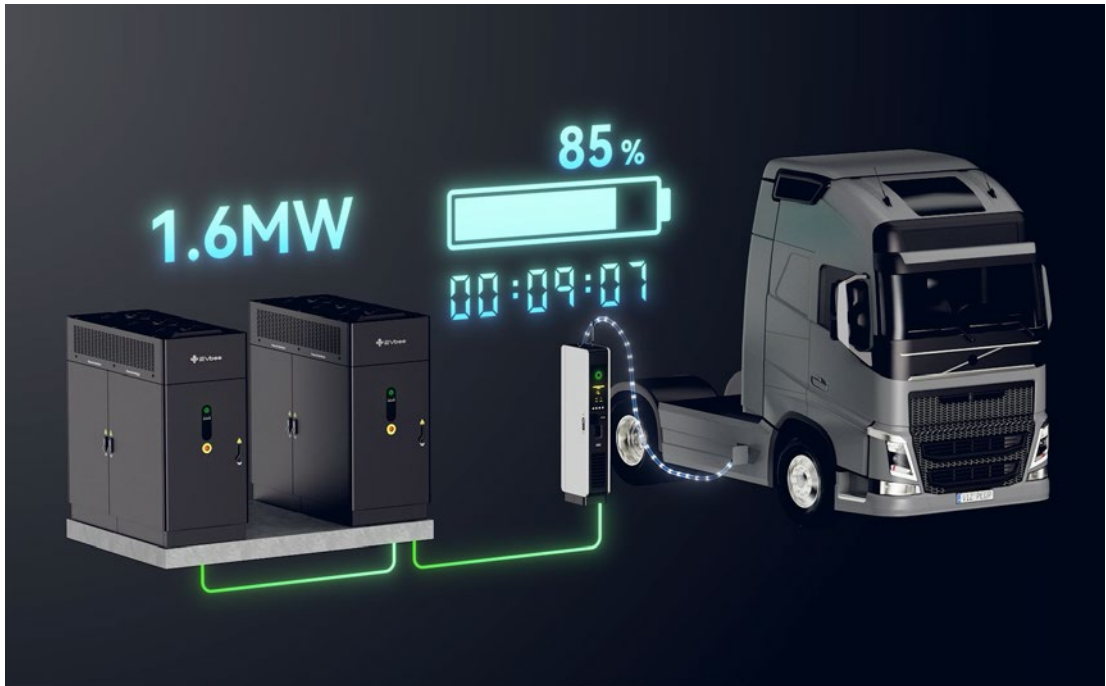
- Liquid cooled 650A (Boost 800A)
- Natural cooled 375A (Boost 500A)
- Two natural cooled circuits can replace one liquid cooled circuit
- Two connectors of air cooled satellite support charging one EV simultaneously
- Design with consideration for disabled users



Technical Data

User Interface	• 10.1" LCD display • RFID reader (ISO/IEC 14443A: MIFARE Classic EV1) • Optional NFC contactless card payment terminal • RGB LED status indicator • Supported Languages – English, French, German, Italian, Spanish (other languages available on request)
Charge Protocol	Mode 4 (IEC 61851-23)
Output	• Connection Type – 1x CCS2 / 2x CCS2 • Power – 1x 650kW / 2x 375kW • DC Output Voltage Range – 150-1000V DC • Constant Power Output Range – 300-1000V DC • Maximum Output Current – 1x up to 650A (Boost 800A) / 2x up to 375A (Boost 500A) • Charging Cable Length – 1x 3.5m / 2x 5m
Dimensions	310mm x 1730mm x 500mm (W x H x D)
Protection	Output overvoltage protection Output short circuit protection Output overcurrent protection Output reverse connection protection Grounding protection Over temperature protection Contactor adhesion protection Insulation detection protection Emergency stop button
Environmental	• Ingress Protection – IP55 • Operating Temperature – -30°C-+50°C • Storage Temperature – -30°C-+70°C • Operating Humidity – 0-95%RH • Cooling Method – Liquid Cooled / Air Cooled • Operating Altitude – ≤2000m, Derating above 2000m • Noise Level – ≤55dB
Materials	• Body – Stainless steel • Finish – All-weather powder-coated finish
Unit Colour	● Grey ● Other colours and branding options are available upon request
Certifications & Compliances	• Standards – IEC 61851-1, IEC 61851-21-2, IEC 61851-23, IEC 61851-24 • EV Communication Protocol – ISO 15118, DIN 70121 • ENA Database • Accessibility – PAS 1899 accessible charging standard • Payter Payment Device (where fitted) – CE, FCC, RoHS, WEEE, REACH, EMVCo, PCI-PTS 6.x, TQM, MasterCard, VISA, American Express, Discover, Diners^P • Certifications – CE, UKCA, TUV, Eichrecht
Use Life	10 years
Warranty	2 years (extended warranty available upon request)





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