



DynaChrg EVS480 Distributed EV Charger

Next-Generation Ultra-Fast & Scalable Charging

The DynaChrg 480kW is a high-performance EV charging system designed for public stations, fleet depots, and commercial hubs. Its modular Power Bank architecture supports up to three User Terminals, intelligently distributing power for faster, more efficient multi-vehicle charging. By consolidating power into a single high-capacity unit, it reduces installation costs and optimizes energy use, making it the ideal solution for high-traffic locations.

Optimized Multi-Terminal Charging

- 480kW Power Bank replaces multiple chargers.
- Supports 3 User Terminals for simultaneous EV charging.
- Smart load balancing cuts costs & speeds up charging.

Smart & Efficient Power Distribution

- Dynamic power across 6 connectors per terminal.
- CCS 500A (liquid-cooled), CCS 300A, CHAdeMO 125A.
- 96.5% efficiency reduces energy waste & lower operational cost.

Lower Costs, Scalable Growth

- Fewer grid connections, lower infrastructure costs.
- Expandable—add User Terminals as needed.
- Centralized monitoring cuts downtime.

Durable, All-Weather Ready

- IP55/NEMA 3R, IK10-rated for reliability.
- Operates from -30°C to 65°C, low noise.
- Compact for parking lots & fleet operations.

Standards & Future-Ready

- Built on hardware tested to UL safety standards and designed to meet FCC and ISO 15118 requirements.
- EMC Class A — minimal electromagnetic interference.
- Plug & Charge—ready for seamless use.

Smart & User-Friendly

- Payments: Visa, MasterCard, Apple Pay, RFID
- Cloud monitoring for real-time diagnostics.
- OCPP 1.6J-ready, LAN, 4G, Wi-Fi connectivity.



Core Components

User Terminal

Up to 500A output, compact, and universally compatible.

Power Bank

360-480kW dynamic power allocation with minimal waste.

Dimensions



Ideal for Various Charging Scenarios



Supports multiple simultaneous charging at highway rest stops.



Fast charging minimizes downtime in logistics parks.



High power output attracts repeat customers at fast charging stations.

Key Benefits



Dynamic power sharing for optimal utilization.



Scalable and upgradeable for future expansion.



High-speed charging with liquid-cooled connectors.



Low noise and compact design for any location.



Durable stainless steel with IP55/IK10 ratings.

Specifications

General	
Category	Parameter
Enclosure	304 stainless steel
IP rating	IP55/NEMA3R
IK rating	IK10
Protection	Input over voltage protection; Output under voltage protection; Short circuit protection; Over current protection; Overtemperature protection; Current surge protection; Emergency stop protection, etc.
Ambient temperature	-30C ~ +65C
Rh	5% ~ 95%
Altitude	≤2000m
Protocol	OCPP1.6J (upgradable)
Indication	LED & User interface on user unit
Compliance and Certification	Tested to UL safety standards 2295, compliant with CTEP, FCC, CTEP, supports ISO 15118
EMC	Class A (Industrial)

Power bank	
Category	Parameter
Input voltage	AC480V±10%
Input type	L1+L2+L3+N+PE
Frequency	45~65Hz
Power factor	0.99
Peak efficiency	≥96% (Full load ≥96%)
Power output	360~480kW
Maximum output current	1600A
Dimension	≤ 1400*1000*2100mm
Weight	≤900kg

User Terminal	
Category	Parameter
Output voltage	50~ 1000V
Constant voltage range	300~ 1000V
Number of connectors	6 (at most)
Maximum current per connector	CCS1(conventional cooling): 200A/300A; CCS1(liquid cooling): 500A; CHAdeMO: 125A;
Cable length	5m
Load sharing	Flexible load distribution according to user requirement
Incremental unit for output power distribution	40kW
Payment method	Visa/Master/RFID/Apple Pay etc.
Dimension	≤750*450*2100mm

Contact Us

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