POWERPSSONIC
TRUSTED BATTERY SOLUTIONS

evesco

EVHY-240/233 (EU) & EVHY-400/466 (EU)

240 - 400 kW Battery-Integrated Chargers

Battery-Integrated DC Fast Charging.
Lower Grid Demand. Higher Charging Power.

System Features

Ultra-Fast Charging Performance

- Delivers up to 400 kW of DC fast charging power, enabling rapid vehicle turnaround while reducing reliance on high-capacity grid connections.

Integrated Battery Storage

- Available with single or dual battery configurations up to 466 kWh, extending charging duration and supporting sustained high-power operation.

Smart Energy Management

- An integrated EMS enables peak shaving and load shifting, optimizing energy costs while improving site-level power utilization and grid interaction.

High-Efficiency DC-DC Architecture

- Advanced DC-DC power conversion maximizes efficiency and minimizes energy losses, improving overall system performance during charging cycles.

High Power Output with Less Input

- Maintains high charging output even in low input-power environments, outperforming most superchargers on the market.

All-in-One Compact Design

- An integrated charger and battery architecture minimizes system footprint, simplifying site deployment where space or infrastructure constraints apply.

Inclusive Charger Design

- Easy-reach cables and an accessible interface height ensure compliance with accessibility and disability regulations.

POWERPSSONIC TRUSTED BATTERY SOLUTIONS | evesco

EVHY-240/233 (EU) & EVHY-400/466 (EU)

240 - 400 kW Battery-Integrated Chargers

System Specifications

For EVHY models, the format X/Y indicates charging power (X, kW) and battery energy capacity (Y, kWh).
Example: 240/233 = 240 kW charging power with a 233 kWh integrated battery.

Charger Specifications		
Model Number	EVHY-240/233 (EU)	EVHY-400/466 (EU)
Connectors	CCS2 + CCS2	
Max. Output Power	240 kW	400 kW
Output Voltage	200 - 1000 VDC	
Max. Output Current	250 A	400 A
Efficiency	≤97%	
Charging Cable Length	5 m (16.4 ft) (optional extended lengths available)	
Communication	OCPP1.6J	
Display	23.8" touchscreen with split layout (lower third: charger interface; upper two-thirds: media display)	
Authentication Modes	RFID, passcode, OCPP and optional POS terminal	
Connectivity	LTE (4G) / Ethernet	
Energy Storage System Specifications		
Battery Capacity	233 kWh	466 kWh
Battery Chemistry	Lithium Iron Phosphate (LFP)	
Max. Recharge Power	125 kW	250 kW
Charge/Discharge Rate	0.5C	
Max. DC-DC Current	320 A	576 A
DC-DC Voltage Range	761 - 923 VDC	
Max. DC-DC Power	250 kW	500 kW
Efficiency	≤95%	
Battery Cooling Method	Advanced liquid cooling	
Input Voltage	400 VAC +/- 10% (3Phase + N + PE)	
Input Frequency	50 / 60 Hz	
General System Specifications		
Protection Ratings	**Charger:** IP55 / IK10 (IK08 for display) **Energy Storage System:** IP54 / IK10	
Operating Temperature	-22°F (-30°C) to 122°F (50°C)	
Humidity	5 - 95% non-condensing	
Operating Altitude	<2000 m (<6562 ft)	
Protection	Under-voltage protection, over-voltage protection, DC over-current protection, over-temperature protection, surge protection device, emergency stop protection, overload protection, short circuit protection, electric leakage protection, grounding protection.	
Dimensions W x D x H	2065 x 1486 x 2400 mm 81.9 x 58.5 x 94.5 in	3180 x 1486 x 2400 mm 125.2 x 58.5 x 94.5 in
Weight	3455 kg 7617 lbs	6085 A 13415 lbs
Standards/Certification	**Charger:** EN IEC61851-1:2019, IEC 61851-1:2017, EN 61851-23:2014, IEC 61851-23:2014, EN 61851-24:2014, IEC 61851-24:2014, EN IEC61000-6-2:2019, EN IEC61000-6-4:2019, EN IEC61851-21-2:2021, EN 301908-1, EN301908-13, EN301489-1, EN301489-52, EN300328, EN301489-17, EN 300330, EN301489-3, EN 18031-2:2024, DIN 70121, DIN 70122, ISO 15118-20, ISO 15118-21, ISO 15118-23 **Energy Storage System:** UN38.3, IEC/EN62619:2022, IEC/EN62477-1:2012+A11+A1+A12, IEC/EN61000-6-2:2019, IEC/EN61000:-6-4:2019, EN, 50549-1:2019, EN 50549-10:2022	

POWERPSSONIC
TRUSTED BATTERY SOLUTIONS

EVESCO

Integrated Energy Management System (EMS)

Smarter Charging. Lower Energy Costs. Total Visibility. EVESCO's EMS intelligently manages battery storage, grid input, and charging demand to reduce peak demand charges, optimize energy use, and ensure reliable high-power charging. Deploy on-site or in the cloud for real-time control and operational visibility.

Real-Time Monitoring & Alerts

- Continuously monitors charger demand, battery health, cooling, PCS, fire suppression, and system performance. Enables instant alerts and data-driven decisions.

Enterprise-Grade Security

- Multi-layered cybersecurity architecture with encryption, user access control, and audit trails to protect critical infrastructure and data integrity.

Scalable, Modular Architecture

- Supports deployments from single integrated chargers to large charging hubs. Expand capacity or add systems without reconfiguring your control strategy.

Proactive Maintenance & Diagnostics

- Delivers predictive insights and fault detection to reduce downtime, streamline service cycles, and maximize asset life.

With EVESCO's EMS, you don't just power EV chargers, you optimize energy use, reduce demand charges, and deliver reliable fast charging even with limited grid capacity.

POWERPSONIC
TRUSTED BATTERY SOLUTIONS

evesco

Ready to take control of your EV charging future?

Contact us at
evesco@power-sonic.com
to accelerate your electrification strategy.

Rev1: 01/26