FALCÃO Family

Workhorse DC fast 120 to 360 kW buffered cluster

For highway corridors, fleet hubs and retail forecourts

FALCÃO is the workhorse DC fast family. 120, 180, 240 or 360 kW per dispenser, 2 ports per cluster, for highway corridor and fleet deployments. Liquid-cooled at 240 kW and above. Buffered on the XEYAR shared DC bus with a DRACO ESS sized to the port count and use profile.

Available configurations

SKU	CONFIGURATION
FAL120-B80N-2C	2 ports · 120 kW · 80 kWh Na-ion / 100 SC
FAL180-B120N-2C	2 ports · 180 kW · 120 kWh Na-ion / 150 SC
FAL240-B150N-2C	2 ports · 240 kW · 150 kWh Na-ion / 200 SC
FAL360-B225N-2C	2 ports · 360 kW · 225 kWh Na-ion / 300 SC

Battery-buffered EV chargers built on the patent-pending XEYAR shared DC-bus architecture. Grid input and battery discharge are simultaneous and additive, not sequential, so a standard 100 A electrical service can drive high-power EV charging without a transformer upgrade, depending on the site. eMÖTEN Power, the dynamic load management layer in eMÖTEN CMS, is designed to hold at least 50% of nameplate per active port and is designed around NEC 625.42(A); your inspector (AHJ) approves each installation. On XEYAR sites, eMÖTEN Power manages the chargers and the battery is run by its own battery management system (BMS).

Included with every MÖTEN cluster

✓ Free shipping on MÖTEN hardware anywhere in the United States.
✓ eMÖTEN CMS included on MÖTEN chargers ($0 CMS subscription on MÖTEN chargers).
✓ Patent-pending XEYAR shared DC-bus architecture (USPTO and CIPO).
✓ 2-year manufacturer warranty on chargers, extendable to 5 years (2 + 3) or 10 years (2 + 8) in total; batteries 10 years; 97% uptime SLA. Extended warranty available for purchase.

FALCÃO technical specifications

Engineering reference. Project-specific configurations are sized by MÖTEN sales engineering and confirmed in the quote.

Power per dispenser	120, 180, 240 or 360 kW
Connector	CCS1 plus a built-in NACS cable
Cable	15 ft standard; liquid-cooled at 240 kW and above
Enclosure	Outdoor IP55, cabinet and dispenser configurations
Display	10" or 15" full-color touchscreen
Authentication	Tap-to-pay, RFID, mobile app
Communications	OCPP 1.6, 2.0.1 ready · Ethernet, 4G LTE, Wi-Fi
Cluster size	2 ports

Grid	100 A · 3-phase 480 V · 83.1 kW continuous
PCS	83.1 kW bidirectional
CMS	eMÖTEN CMS included on MÖTEN chargers: pricing, reporting, eMÖTEN Power load management and eMÖTEN Pay, the automated settlement layer in eMÖTEN CMS
Operating temp	-40 °C to +65 °C
Lead time	60 to 90 days from order, depending on configuration
Warranty	2-year manufacturer warranty on chargers, extendable to 5 years (2 + 3) or 10 years (2 + 8) in total; batteries 10 years; 97% uptime SLA. Extended warranty available for purchase.
Certifications	XEYAR battery storage certified to UL 9540, UL 9540A, UL 810A, IEC 62619 and CSA. Chargers ETL certified (UL 2202 DC, UL 2594 Level 2). FCC Part 15.

Ready to deploy FALCÃO? Configure your cluster with our engineering team.
Request a quote: evfc.com/quote/ · Talk to sales: evfc.com/contact/ · 1 (888) 528-7582