



PROGRAM DATASHEET · BI-DIRECTIONAL CHARGER · EVBC

EVBC6060-xxxS

60 kW Bi-Directional DC EV Charger · Standard

"Charge the bus. Then let the bus power the site."



DESCRIPTION

The EVBC6060-xxxS is an all-in-one DC quick charger that enables up to 60 kW of bi-directional charging input and output, with highly flexible, field-configurable Vac input power that accepts the most common distribution voltages, reducing overall infrastructure and construction costs.

The charger can also be configured to provide different charging and discharging power, totaling up to 120 kW of power in and out: for example, charging at 40 kW while discharging at 80 kW, or other configurations totaling 120 kW, for full bi-directional flexibility.

FEATURES & BENEFITS

- Highly flexible power input with no de-rating
- Bi-directional, vehicle-to-grid (V2G) charging
- Field replaceable power rectifiers and inverters
- Demonstrated >1 million hour MTBF PSU topology
- IP54/NEMA 3R enclosure
- Remote upgrades via over-the-air updates

APPLICATIONS

- Small, mid, and large fleets & depots
- EV infrastructure and service providers
- Public & commercial buildings
- Municipalities
- Retail & hospitality
- Residential & multi-unit dwellings
- OEM test facilities

SPECIFICATIONS

Quoted verbatim from Pii DATA133 (last updated March 2, 2026)

Rated power	Standard configuration: 60 kW charging & discharging Alternate configurations: 70/50 kW & 80/40 kW
AC grid voltage	208 or 240 Vac 3-Phase (3P + PE) Delta · 480/277 Vac 3-Phase (3P + N + PE) Wye
AC current	195 A maximum (208 or 240 Vac 3-phase Delta) · 85 A maximum (480 Vac 3-phase Wye)
Grid frequency / isolation	60 Hz · Galvanic, integrated
DC output voltage range	250 to 920 Vdc
DC input voltage range	290 to 450 Vdc, or 560 to 900 Vdc
DC current	150 A maximum
Maximum efficiency / power factor	96% · 0.98
Connector & cable	CCS1, 5 m cable length
Charging/data protocols	DIN 70121 & OCPP 1.6J; (ISO 15118-20 & OCPP 2.0.1 roadmap)
Network interface	Cellular 4G LTE, Wi-Fi
Operational temperature	-35 °C to +50 °C
Humidity / altitude	Up to 95% non-condensing · 2000 m (6562 ft)
Enclosure rating	NEMA 3R; IP54
Weight	700 kg
Mounting	Floor mounted, all-in-one cabinet
Certifications	Designed to UL 2202, IEEE 1547.1 and UL 1741-SB

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