

DC Fast Power Cabinets

Specification Sheet

EvoCharge Power Cabinets are used with EvoCharge Power Stations and distribute charging power to as many as 6 or 8 charging outputs (charge ports) simultaneously depending on the product configuration. The unique dynamic power management enables utilizing the full charging power capacity of all power modules to all connected charging outputs, providing up to 280kW of charging power per charge port.

- Connect up to 8 charging outputs (charge ports) to each power cabinet depending on product configuration
- Scalable options with single (50kW-200kW), double (50kW-400kW), or triple cabinet (50kW-600kW) power units
- 50kW power module increments in scalability
- Advanced charging control and customization
- Lockable doors



50-600kW
of power



150-1000
adaptive voltage range

Electrical

Input voltage (AC)	380-480 VAC +6%/-10%
Input frequency	50-60 Hz
Output voltage	150-1000 VDC
Power factor (at full load)	0.92
Efficiency (at full load)	94%
Idle power	20 VA
Standby power	Single: 50 W Double: 100 W Triple: 150 W
Over voltage class	III
Icc	35 kA
Network type	TN-S, TN-C, TN-C-S, TT

Environmental Specifications

Operating temperature	-22° to 122°F (-30 to 50°C)
Current derating	Maximum charging current decreases 2% for every 1 °C/1.8 °F rise in temperature above +25 °C/77 °F
Maximum altitude	2000 m / 6562 ft. (without altitude derating)
Altitude derating	Maximum charging current decreases 1.4% for every 100 m/328 ft. rise above 2000 m/6562 ft.
Storage temperature	-40°F to 140°F (-40 to 60°C)
Enclosure	IP54, IK10
Operational noise level	< 60 dB (at 1 m distance)
Ambient air humidity	< 95% relative humidity

Connections & Protocols

WiFi	802.11 b/g/n (2.4/5 GHz)
Cellular / GPS	LTE-FDD, LTE-TDD, WCDMA, GSM
Ethernet	RJ45, IEEE 802.3 / 802.3u
OCPP	1.6j / 2.0.1

Safety

Over/undervoltage

Surge protection

Short circuit

Overload protection

Earth leakage current monitoring

Device overtemperature

ETL Listed

Compliance to Standards

IEC 61851-1

IEC 61851-23

IEC 61851-21-2

UL 2202

UL 2231-1

UL 2231-2

CSA Std. c22.2 No. 281.2

CSA Std. c22.2 No. 107.1

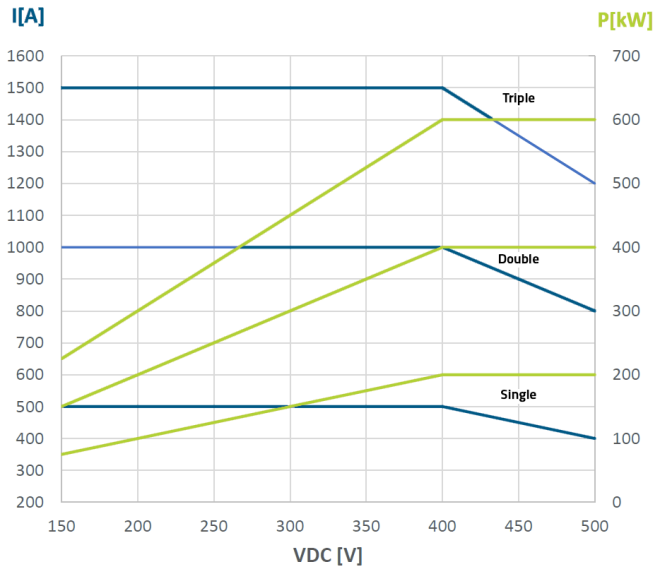
EMC Class A FCC Part 15

Charging cable temperature monitoring

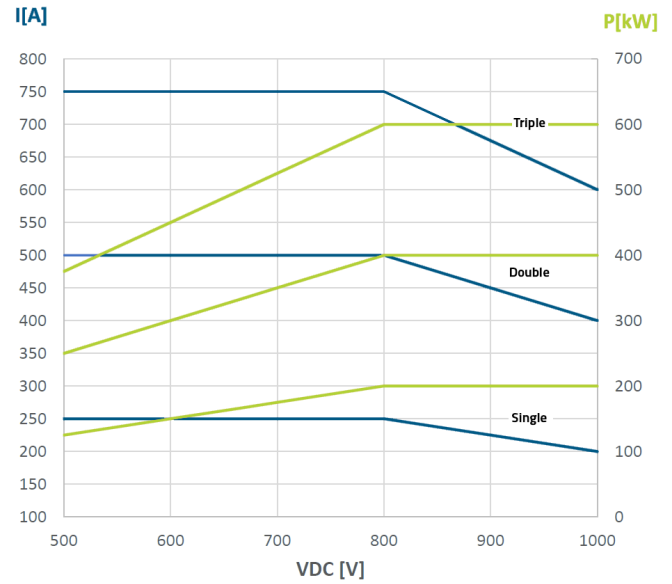
Product Type	Number of Power Modules	Number of independent AC supply cables*	Charging power	Input current per supply cable at 400V	Input current per supply cable at 480 V
Single	1	1	50kW	91A	76A
	2	1	100kW	181A	151A
	3	1	150kW	272A	227A
	4	1	200kW	362A	302A
Double	5	2	250kW	91A	76A
	6	2	300kW	181A	151A
	7	2	350kW	272A	227A
	8	2	400kW	362A	302A
Triple	9	3	450kW	91A	76A
	10	3	500kW	181A	151A
	11	3	550kW	272A	227A
	12	3	600kW	362A	302A

* Each cabinet has a dedicated supply cable

Power Curve 150-500 VDC



Power Curve 500-1000 VDC

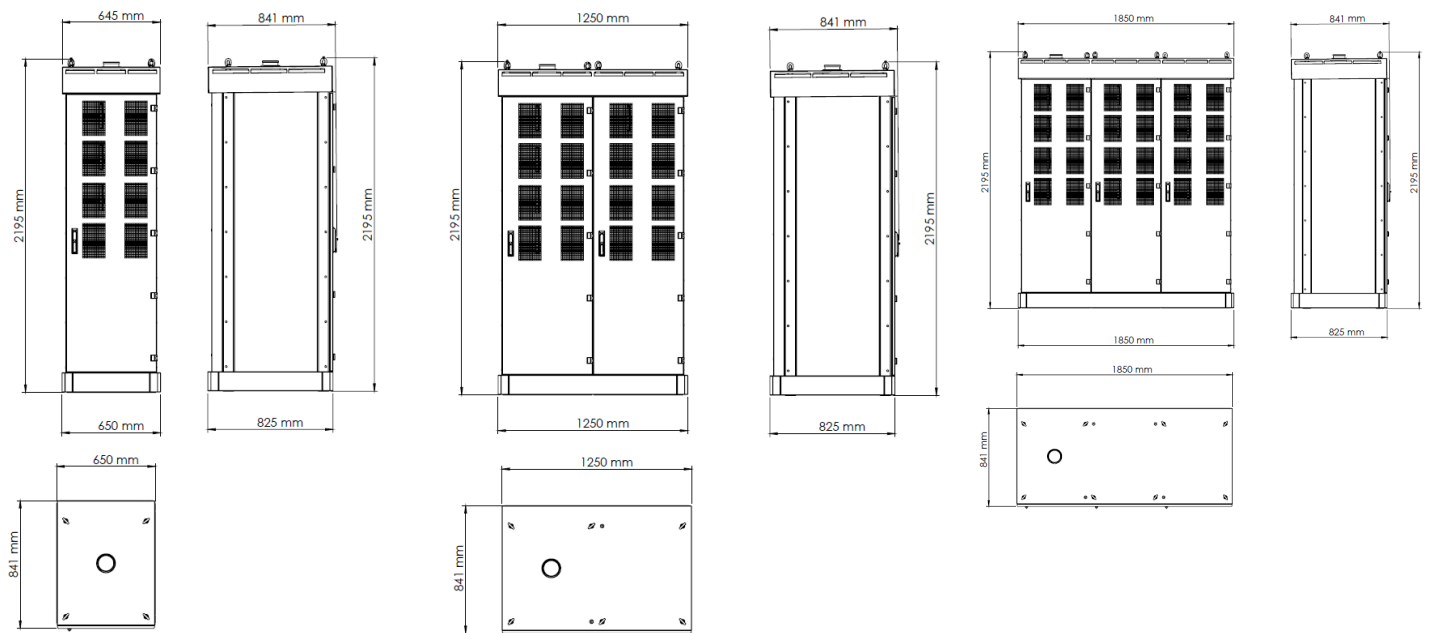


Mechanical Dimensions

Single: 650 x 2195 x 841 mm

Double: 1250 x 2195 x 841 mm

Triple: 1850 x 2195 x 841 mm



Weight

EVD050A	617lbs (280kg)
EVD100A	705lbs (320kg)
EVD150A	794lbs (360kg)
EVD200A	882lbs (400kg)
EVD250B	1499lbs (680kg)
EVD300B	1587lbs (720kg)
EVD350B	1676lbs (760kg)
EVD400B	1764lbs (800kg)
EVD450C	2381lbs (1080kg)
EVD500C	2469lbs (1120kg)
EVD550C	2557lbs (1160kg)
EVD600C	2646lbs (1200kg)

Visit evocharge.com for more information or to download an installation manual.