

Evology DC chargers

While the grid supplies AC power, DC charging provides a faster alternative. Unlike AC chargers, which convert AC to DC inside the vehicle, a DC charger has the converter inside the charger itself. That means it feeds power directly into the battery without the need to convert it. While this means that DC chargers tend to be larger this does improve charging times.

Our DC chargers provide the same level of bay protection as our AC chargers; however, it is delivered through a monitoring bollard. An additional unit that houses the ANPR technology. This not only allows you to monitor an Evology charger but could be installed on any existing charging station to provide the same level of protection.



Connectivity

All Evology chargers allow customers to easily connect to OCPP back-offices, payment platforms or other enterprise and energy management tools.

This enables remote assistance, diagnostics and repair, with remote updates and upgrades, giving you extra peace of mind that your chargers are being monitored and taken care of around the clock.



The future-proof solution

Evology was created with the future in mind. This means accessible and reliable chargers with 24/7 uptime, connected services, interoperability support and evolving services that will transform how people think about parking and travel. Safety is always paramount with Evology DC chargers, which are certified to all relevant standards, including EMC Class B for safe operation for all consumers in office, retail, and fuel stations.

Applications

EV charging needs to become widespread in order to enable an effective transition to electric vehicles. Our chargers can be found and installed in a variety of locations, including:



Commercial shopping and dining areas



Metropolitan / urban areas



Fuel and convenience stores



Commercial fleet operators



OEM test facilities



EV infrastructure operators and service providers

Electric Vehicle Infrastructure

Evology DC 50kw Charger



Evology DC 50kw

Evology DC 50kwHV

Evology's chargers are the most preferred DC fast charging solution in the world, shown here in Evology DC 50kw and Evology DC 50kwHV configurations.

Our DC charger combines fast charging with incredible reliability. The charger can supply continuous 50 kW charging up to 500 VDC and supports up to 920 VDC – accommodating both CCS1 and CHAdeMO functionality.

All our DC chargers feature access to our powerful remote services, software updates, access management and OCPP network enablement.

Specifications	Evology DC 50kw		Evology DC 50kwHV
Electrical			
Max output power	50 kW continuous		
AC Input voltage	480Y / 277 VAC +/- 10 % (60 Hz)		
AC input connection	3-phase: L1, L2, L3, GND (no neutral)		
Nominal input current and input power rating	64 A, 54 kVA		
Recommended upstream circuit breaker(s)	80 A		
Power Factor*	> 0.96		
Current THD*	IEEE 519 Compliant; 5%		
Short circuit current rating	65 kA; 10 kA optional		
DC output voltage	CCS1: 200 - 500 VDC CHAdeMO: 50 - 500 VDC	CCS1: 200 - 920 VDC	
DC output current	125 A		
Efficiency*	95%		
Interface and Control			
Charging protocols	CCS1 and CHAdeMO	CCS1	
User interface	7" high brightness full color touchscreen display		
RFID system	ISO/IEC 14443A/B, ISO/IEC 15393, FeliCa™ 1, NFC reader mode, Mifare, Calypso, (option: Legic)		
Network connection	GSM/3G/4G modem; 10/100 Base-T Ethernet		
Communication	OCPP 1.6 Core and Smart Charging Profiles Autocharge via OCPP		
Supported languages	English (others available on request)		
Environment			
Operating temperature	-35 °C to +55 °C / -31 °F to +131 °F (de-rating characteristics apply at extreme temperatures)		
Recommended storage conditions	-10 °C to +70 °C / 14 °F to +158 °C (dry environment)		
Protection	IP54, NEMA 3R; indoor and outdoor rated		
Humidity	5% to 95%, non-condensing		
Altitude	2500 m (8200 ft)		
General			
Charge cable	6 m (19.6 ft) standard		
Dimensions (H x W x D)	1900 x 565 x 780 mm 74.8 x 22.2 x 30.7 in		
Weight	350 kg / 775 lbs		
Compliance and safety	UL 2202, CSA No. 107.1-16, NEC Article 625, EN 61851, EN 62196; CHAdeMO 1.2; DIN 70121, ISO 15118; IEC 61000-6-3; EMC Class B		

*Data shown at nominal output power

Electric Vehicle Infrastructure

Evology DC 90kw Charger



The Evology 90kw Charger is perfect for quickly topping up a battery. This system can provide motorists with up to 100 miles of range in as little as 15 minutes. This charger features a single outlet Combined Charging System (CCS) with a cable management system, allowing it to connect while keeping around the vehicle clear.

A rapid charge is a perfect chance to stretch your legs or take a break from driving while your battery tops up, and thanks to our Monitoring Bollard, site owners get additional peace of mind that their bay and equipment aren't being taken up by unauthorised use, making life much easier for visitors to the car park.

Specifications	Evology DC 90kw Charger
Electrical	
Max output power	90 kW
AC Input voltage	480Y / 277 VAC +/- 10 % (60 Hz)
AC input connection	3-phase: L1, L2, L3, GND (no neutral)
Nominal input current and input power rating	115 A, 96 kVA
Recommended upstream circuit breaker(s)	150 A
Power Factor*	> 0.96
Current THD*	< 5%
Short circuit current rating	65 kA
DC output voltage	CCS-1: 150 - 920 VDC; CHAdeMO: 150 - 500 VDC
DC output current	CCS-1: 200 A; CHAdeMO: 200 A
Efficiency*	95%
Interface and Control	
Charging protocols	CCS1 and CHAdeMO 1.2
User interface	7" high brightness full color touchscreen display
RFID system	ISO/IEC 14443A/B, ISO/IEC 15393, FeliCa™ 1, NFC reader mode, Mifare, Calypso, (option: Legic)
Network connection	GSM/3G/4G modem; 10/100 Base-T Ethernet
Communication	OCPP 1.6 Core and Smart Charging Profiles; Autocharge via OCPP
Supported languages	English (others available on request)
Environment	
Operating temperature	-35 °C to +55 °C / -31 °F to +131 °F (de-rating characteristics apply at extreme temperatures)
Recommended storage conditions	-10 °C to +70 °C / 14 °F to +158 °C (dry environment)
Protection	IP54, NEMA 3R; indoor and outdoor rated
Humidity	5% to 95%, non-condensing
Altitude	up to 2000 m (6560 ft)
General	
Charge cable	6 m (19.6 ft)
Dimensions (H x W x D)	1900 x 565 x 880 mm / 74.8 x 22.2 x 34.6 in
Weight	350 kg / 775 lbs
Compliance and safety	UL 2202, CSA No. 107.1-16; UL 2231-1, UL 2231-2, CSA STD C22.2 No. 107.1; NEC Article 625, EN 61851, EN 62196; CHAdeMO 1.2; DIN 70121, ISO 15118; IEC 61000-6-3; EMC Class B, FCC Part 15

*Data shown at nominal output power

Electric Vehicle Infrastructure

Evology DC 120kw Charger



If visitors to your car park are going to be some time, such as when shopping, visiting a restaurant or watching a film then our Evology DC 120kw Charger could be the perfect addition to your EV infrastructure. Featuring a dual outlet CCS this charger can top up batteries on two vehicles simultaneously.

Simultaneous, high powered fast charging, is ideal for sites which need to maximise the potential of their charging assets, delivering fast charging and helping to serve an ever-increasing number of high-capacity electric vehicles. This is all protected by our monitoring bollard, ensuring that your chargers maximise their potential, free from abuse.

Specifications	Evology DC 120kw Charger
Electrical	
Max output power	120 kW or 60 kW x 2
AC Input voltage	480Y / 277 VAC +/- 10 % (60 Hz)
AC input connection	3-phase: L1, L2, L3, GND (no neutral)
Nominal input current and input power rating	153 A, 128 kVA
Recommended upstream circuit breaker(s)	200 A
Power Factor*	> 0.96
Current THD*	< 5%
Short circuit current rating	65 kA
DC output voltage	CCS-1: 150 - 920 VDC; CHAdeMO: 150 - 500 VDC
DC output current	CCS-1: 200 A; CHAdeMO: 200 A
Efficiency*	95%
Interface and Control	
Charging protocols	CCS1 and CHAdeMO 1.2
User interface	7" high brightness full color touchscreen display
RFID system	ISO/IEC 14443A/B, ISO/IEC 15393, FeliCa™ 1, NFC reader mode, Mifare, Calypso, (option: Legic)
Network connection	GSM/3G/4G modem; 10/100 Base-T Ethernet
Communication	OCPP 1.6 Core and Smart Charging Profiles; Autocharge via OCPP
Supported languages	English (others available on request)
Environment	
Operating temperature	-35 °C to +55 °C / -31 °F to +131 °F (de-rating characteristics apply at extreme temperatures)
Recommended storage conditions	-10 °C to +70 °C / 14 °F to +158 °C (dry environment)
Protection	IP54, NEMA 3R; indoor and outdoor rated
Humidity	5% to 95%, non-condensing
Altitude	up to 2000 m (6560 ft)
General	
Charge cable	6 m (19.6 ft)
Dimensions (H x W x D)	1900 x 565 x 880 mm / 74.8 x 22.2 x 34.6 in
Weight	365 kg / 800 lbs
Compliance and safety	UL 2202, CSA No. 107.1-16; UL 2231-1, UL 2231-2, CSA STD C22.2 No. 107.1; NEC Article 625, EN 61851, EN 62196; CHAdeMO 1.2; DIN 70121, ISO 15118; IEC 61000-6-3; EMC Class B, FCC Part 15

*Data shown at nominal output power