

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