

## DC 120 kW EV Charger

Our 120 kW DC EV Fast Charger is engineered to deliver high-speed charging, catering to the demands of modern electric vehicles, ensuring shorter charging times and longer journeys. It is an ideal solution for parking lots, highways, and charging stations. Equipped with advanced security features and user-friendly interfaces, this charger offers a seamless and reliable charging experience, empowering EV owners with swift power for their journeys ahead.



### Powerful Performance

- Rating: 120 KW
- Input Voltage Range: 3-Phase, 415 VAC ( $\pm 10\%$ ), 50Hz

### Output Parameters

- Voltage: 150-1000V DC
- DC Current: 200 A (max)
- Splitting of power output between two charging guns

### Output Port

- Dual CCS 2 Charging connector.

### User- Friendly Authentication

- Seamlessly authenticate with RFID, QR Code Scan, and OCPP 1.6 base Mobile App Interface for a hassle-free charging experience.
- Offline authentication is also provided if the customer requires.

### Advanced Connectivity

- Interface options include 4G/5G, Ethernet, and Wi-Fi for seamless communication.

### 7-Inch or bigger Touchscreen

- 7 inch Industrial grade LCD, which displayed KWh, Date & Time, Total KWh, O/P DC V & Amp, Event logs, Errors, Price per unit, total amount.

### Certification

- Certified by ARAI/ICAT



Sr. No.	Parameter	Detail	Specification
			Model:- ST-EVDC120KW
1	AC Input	Voltage Rating	3-Phase, 415Vac (+10 %,-10%) 360V-460 V
		Max. Input Current	200 A, +-5%
		Input Frequency	50 Hz $\pm$ 3 Hz or better
		Insolation	one number MCCB at input in Charger
		User Authentication	RFID,QR-Code Scan, OCPP based Mobile App Interface Interface : Ethernet, GSM - 3G/4G/5G SIM support, support CMS based Mobile Interface, Auto Change through Vehicle MAC ID
2	Backup Power	Input Supply Failure backup (optional)	Battery backup for minimum $\geq$ 45 minute for the control system and billing unit. The data logs should be synched with CMS during backup time, in case of drain out.
3	DC Output	No. of Output Ports	2 Nos CCS Type 2, 5 meter cable length at a height between 0.4 m to 1.5 m as per IEC 61851-23, section 101.1.3.
		Output Cable	As per Applicable IEC 62196-3 standard with a voltage range up to 1000V (DC).
		Power factor	> 0.98
		Current & voltage THD	Compliant with IEC 61000-3-12
		Output Current	200 A (max) per Gun
		Output Voltage	150-1000V DC
4	Minimum efficiency		>95%
5	Internal Cabling		Should be FR grade
6	Electrical metering		to comply with IEC 62052-11 and IEC 62053-21
7	Charge Option		Auto Charge, Mode Selection (Time/amount/Power/SOC)
8	Splitter	Splitting of power output between two guns	Unit shall have a splitter provision.
9	AC Input Protections	AC Voltage Protection	AC Over-Voltage, AC Under-Voltage
		AC Current Protection	AC Over Current / Short Circuit
		AC Safety Protection	Residual current / Ground fault (ELCB Required 30 ma)
		Earth Monitoring	Earth Presence/Connection Monitoring
		Ground Fault Protection	Ground Fault Protection
		Surge Protection- 4 KV DM	Surge Protection minimum Class B SPD. SPD should have valid test report from NABL accredited Lab having facility as per IEC 61643-11/KEMA/VDE - 4 KV DM
		Temperature Protection	Over temperature
10	ESD	Emergency shut down button	Emergency Shut Button (ESD)
11	EMI/EMC	EMI EMC	As per IEC 61000 for complete unit
		Immunity to electrostatic discharge ( IEC 61000-4-2)	Immunity to electrostatic discharge ( IEC 61000-4-2)
		Supply Voltage Dips and Interruptions ( IEC 61000-4-11)	Supply Voltage Dips and Interruptions ( IEC 61000-4-11)
		Fast Transient ( IEC 6100-4-4)	Fast Transient ( IEC 6100-4-4)
		Voltage surges ( IEC 61000-4-5)	Voltage surges ( IEC 61000-4-5)
		Radiated Electro Magnetic Disturbances	Radiated Electro Magnetic Disturbances
12	Energy Metering	Independent DC and AC Energy Meter for each output and Input and with cumulative	Independent DC and AC Energy Meter for each output and Input and with cumulative
13	Operating Temperature	Operating Temperature	-10 to 55 degC
14	Humidity	Enclosure Protection	95% relative humidity, Non-condensing
15	Enclosure Protection	Enclosure Protection	IP54 or better
16	Cooling Method	Natural / Forced	Force Cooling
17	Applications	To Charge	4 wheelers compatible with CCS-2
18	Communication between charger and EV	CCS2 : IEC 61851, PLC - DIN 70121 and ISO 15118	CCS2 : IEC 61851, PLC - DIN 70121 and ISO 15118
19	Altitude	Upto 2000 m	
20	Keypad	Metallic/Membrane type /Touch screen	Alpha numeric keypad with minimum 12 keys If touch screen is offered it can be integral part of display
21	Display	7" or bigger Industrial grade LCD which displayed KWhr, Date & time, Total KWhr, O/P DC V & Amp., Event logs, Alarms, Errors, Price per unit, total amount.	7" or bigger Industrial grade LCD which displayed KWhr, Date & time, Total KWhr, O/P DC V & Amp., Event logs, Alarms, Errors, Price per unit, total amount.
22	Certification	Certification from ARAI / ICAT (or any Govt/NABL approved lab) and comply the standard from IEC 61851	
23	Memory storage	To store last 1000 event logs	
24	Enclosure	Metal sheet	All panels shall be CRCA sheets only.
25	Enclosure Protection	Protection against mechanical impact & stability	IK10, As per IEC 61851-1 Section 11.11.2 including charger Display

\*Due to continuous improvement technical specifications & product image can change without prior notice.