SERVOTEC
smart power solutions

DC 180 kW EV Charger

Our 180 kW DC EV fast charger is meticulously designed to provide swift and efficient electric vehicle charging. This robust charger enable high-speed charging, meeting the demands of electric vehicles, reducing charging times and extending travel range. It seamlessly fits into parking lots, highways, and charging stations. With cutting-edge security features and user-friendly interfaces this charger guarantees a smooth and reliable charging encounter, providing EV owners swift power for their upcoming journeys.

Powerful Performance

- Rating: 180 KW
- Input Voltage Range: 3-Phase, 415 VAC (±10%), 50Hz

Output Parameters

- Voltage: 200-1000V 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, 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

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DC 180 kW Technical Specifications

Sr. No.	Parameter	Detail	Specification
		Model:- ST-EVDC180KW	
1	AC Input	Voltage Rating	3-Phase, 415Vac (+10 %,-10%) 360V-460 V
		Max. Input Current	As per 240 KW @ 415 V 3 Phase
		Input Frequency	50 Hz ± 1.5Hz 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 SIM support
2	Backup Power	Input Supply Failure backup (Optional)	Battery backup for minimum 15 minute for the control system and billing unit. The data logs should be synched with CMS during backup time, is 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 per Gun as per Customer Requirments
		Output Voltage	200-1000V DC
		Rated outputs and maximum output power	As per IEC 61851- 23,101.2.1.1 except for the ambient temperature range. Temp range to be -20 °C to 55 °C as per Indian climatic conditions.
4	Minimum efficiency	94% for load more than 50%	
5	Internal Cabling	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	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 electroststic discharge (IEC 61000-4-2)	Immunity to electroststic discharge (IEC 61000-4-2)
		Supply Volatge Dips and Interruptions (IEC 61000-4-11)	Supply Volatge Dips and Interruptions (IEC 61000-4-11)
		Fast Transient (IEC 6100-4-4)	Fast Transient (IEC 6100-4-4)
		Volatge surges (IEC 61000-4-5)	Volatge 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	Natural / FAN 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 amopunt.
22	CEA compliance	Chargers to comply with CEA guidelines	Chargers to comply with CEA guidelines and equipment related guidelines given by PNGRB in vogue
23	Certification	Certification from ARAI / ICAT (or any Govt/NABL approved lab) and comply the standard from IEC 61851	
24	Memory storage	To store last 100 event logs	
25	Enclosure	Metal sheet	All panels shall be CRCA sheets only.
26	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.