SERVOTEC

smart power solutions

Taking EV Charging to the Next Level!

Innovating & Transforming Smart Transportation Solutions

With an established footprint across segments and geographies, Servotech has taken up the challenge of Charging the Future of ElectroMobility, creating smart EV charging solutions by cooperating and understanding the unique needs of different stakeholders like utilities, fleet operators, cities, and end-users. Mileage from the most highly perfected and ready-to-implement e-mobility solution in the market, as Servotech enables you to leverage energy-efficient EV-charging systems brought together by a combination of quality research infrastructure, innovative approaches, skilled personnel, and high-performance components.

In its 2 decade-long journey, Servotech Power Systems Limited has emerged as a pioneer in developing intelligent lifestyle solutions by integrating technology and innovation. An NSE-listed company, Servotech is leading the charge in the end-to-end manufacturing, procurement, and distribution of a range of high-end yet customer-focused products which include solar offerings, medical devices, electric vehicle solutions, and smart lighting products.

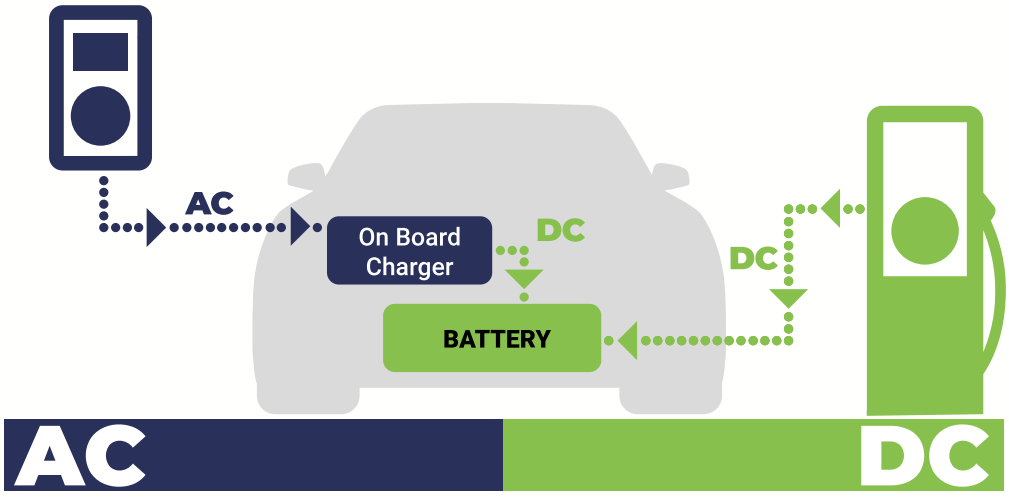
Why EV Charging at your location?

- Appreciate Property Value
- Invite a Greener Tomorrow
- Fulfil Sustainability Commitments
- Augment Brand Value
- Government Standards Compliant
- Dissect the Competition

SERVOTECH
Easy Compatible Chargers

2 Wheelers | 3 Wheelers | 4 Wheelers | Buses

All-EV-Friendly Charging Solutions



AC Charging

All electric vehicles include inbuilt chargers that can convert current before supplying it to the battery. Because they are less expensive to make, install, and run, AC chargers are more ubiquitous in the EV ecosystem.

DC Charging

The converter for a DC charger is included inside the charger itself. That means it can supply power straight to the vehicle's battery, bypassing the onboard charger. When it comes to EVs, DC chargers are bigger, faster, and an amazing development.

Which EV Charger to go for?

Configure your EV needs to different charger specifications:

EV CHARGER TYPE					
Locations	**AC001, 3.3kW-7.2kW**	**11kW - 22AC**	**15kW - 30kW DC**	**50/60 kW DC**	**100 kW - 240 kW DC**
Residential	●				
Work Place	●	●	●		
Commercial (Parking, Hospitals, Malls)		●	●	●	
Leisure (Hotels, Mueseum Parks)		●	●	●	
Highways			●	●	●

AC Chargers

SPARK SERIES

Servotech AC EV Charger enables connectivity with the vehicle control system and to assure the vehicle's and crew's safety. Furthermore, depending on how busy the grid is, the charger informs the car of the maximum current it can draw at that time. So that the network is not overburdened, the AC charging station regulates charging based on the current capabilities of the house or charging point.

3.3 kW Charger

- Compatible with 2/3 wheelers
- User authentication via WiFi/BT/GSM/OCPP1.6
- Input voltage: 120 VAC, 60Hz

10 kW AC 001 Charger

- Supports BEVC-AC001 Specifications
- User authentication via WiFi/GSM/Ethernet/OCPP1.6
- Input voltage: 3 Phase, 200 VAC, 60Hz

7.2 / 11 kW Type-2 Charger

- Compatible with 4 wheelers
- User authentication via WiFi/GSM/Ethernet/OCPP1.6
- Input voltage: 120 VAC, 60Hz

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14 kW Hybrid Charger

- Compatible with 2/3/4 wheelers
- User authentication via WiFi/GSM/Ethernet/OCPP1.6
- Input voltage: 200 VAC, 60Hz

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

AC Chargers Features

- Smart charging solution - takes care of grid load and varying charging demand
- Supports IEC60309 & IEC 62196 standard connectors
- User-friendly app for EV owners to monitor charging and billing information
- Able to manage power loads, keeping it in sync with the charging load
- Grid responsive metering and billing

AC Chargers Benefits

- Compact Design
- Charging Interface Support
- User Authorization
- Easy Installation

AC Chargers Application

- Commercial
- Parking
- Residential
- Fleet

AC Chargers
Technical Specifications

Technical specs of Servotech AC Charger					
Input Power	Rated Power	3.3 KW	3.3 KW	Bharat AC001: 3X 3.3 kW /10 kw Type 2: 7.2kw / 11 kw, 22 kw	
	Input Voltage	110V/ 230 V +/- 10%	110V/ 230 V +/- 10%	110V/ 7.2 KW -230V AC single phase /11 and 22 KW- 415V AC 3 phase	
Output Power	Number of output	One	One	AC001: 1/ 3 Type 2: upto 3	
	Output current range	0-32 A/0-16 A for 3.3KW	0-32 A/0-16 A for 3.3KW	0-32 A/0-16 A for 3.3kw ,0-63 A/0-32A for 7.2 kw per phase, 0-16 Amp per phase and 0-32 A for 22 KW per phase	
	Output charging outlet	Domestic 5 Pin Socket	Industrial IEC 60309	IEC 60309 or Type 2 IEC 62196	
	Output voltage	110V/230 V AC	110V/230 VAC	110V/ 230V AC/415 V AC	
User interface and control function	DISPLAY	NIL	NIL	Optional	4.3 TFT LCD with touch
	Status Indicator	LED Light	LED Light	Provided	Provided
	Push button	Yes	Yes	Emergency Stop	
	User authentication	QR Code	QR code	RFID/QR CODE	QR CODE /RFID + OCPP1.6v
Environment	Ambient temperature	-30°C to 55°C	-30°C to 55°C	-30°C to 55°C	
	Storage temperature	-30°C to 70°C	-30°C to 70°C	-30°C to 70°C	
	Operational Temp	-30°C to 60°C	-30°C to 60°C	-30°C to 60°C	
	Altitude	< 2000 meters	< 2000 meters	<2000Mtr.	
	Humidity	upto 95% Non Condensing		<95% Non condensing	
Communication	External	Bluetooth & GSM with SIM APP with OCPP	Bluetooth & GSM with SIM APP with OCPP	Wifi/BT /OCPP 1.6 v	WiFi, BT, RS485, LAN/4G/OCPP1.6v
	Meeting and billing	Bluetooth & GSM with SIM APP server based online Payment, with OCPP based authentication	Bluetooth & GSM with SIM APP server based online Payment, with OCPP based authentication	Grid Responsive metering and smart card, QR code scan/OTP/RFID card/APP server based online Payment	Grid Responsive metering and smart card, QR code scan/OTP/RFID card/APP server based online Payment/ OCPP based authentication
	Charging operation	SCAN QR Code	SCAN QR Code	Swipe card/Scan Code	Swipe card/Scan Code APP based authentication
Protection	Input/Output protection	Over/Under voltage protection, Overload protection, Short circuit protection, Current leakage protection Grounding protection, Surge protection, Over/Under temperature protection	Over/Under voltage protection, Overload protection, Short circuit protection, Current leakage protection Grounding protection, Surge protection, Over/Under temperature protection	Over/Under voltage protection, Overload protection, Short circuit protection, Current leakage protection Grounding protection, Surge protection, Over/Under temperature protection (*protections are optional and based on user requirements)	
	Mechanical protection	IP65	IP65	IP54	
	Cooling	Natural	Natural	Natural cooling	
Regulation	As per	IEC 61851-1:201	IEC 61851-1:201	IEC 61851-1:2017, IEC 61851-21-2	
	Safety	CE	CE	CE	
	Certificate	UL/ARAI	UL/ARAI	UL/ARAI	
	Dimensions	355mm*255mm*135mm (H xWx D)	355mm*255mm*135mm (H xWx D)	475mm*400mm*200mm (H xWx D)	
	Optional Accesories	Mounting Column / Piller	Mounting Column / Piller		
	Mounting	Wall / Pole Mounted	Wall / Pole Mounted	Wall mounted / Pole mounted	

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DC Chargers

SQUAD SERIES

Servotech DC chargers are capable of providing DC power to the car right away. The vehicle does not need to convert DC EV charging to AC. Because this method eliminates a stage, it can charge an electric vehicle considerably more quickly. Some of the fastest DC chargers can fully charge a vehicle in less than an hour.

DC Charging Station

15kW | 20kW

- Supports BEVC-DC001 Specifications
- Charging gun as per GB/T 20234.3 compliance
- 1-2 outputs for charging
- Input voltage: 3 Phase 200 VAC, 60Hz

CCS-2/ Charging Station

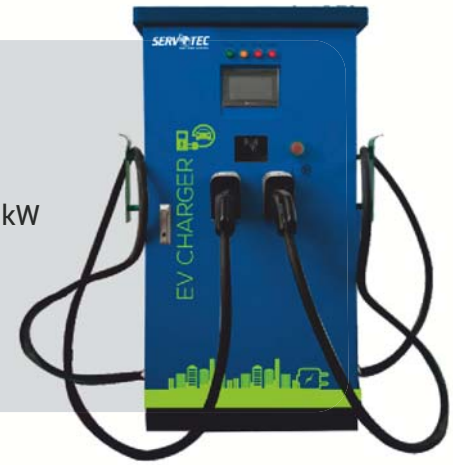
Single Gun : 30kW

- Supports output range : 30 kW
- Charging gun : CCS2
- Single output for charging
- Input voltage: 3 Phase 200 VAC, 60Hz

CCS-2/ Charging Station

Dual Gun: 60kW / 120 kW

- Supports output range from 30kW to 120kW
- Charging guns: CCS-2/CHAdeMO
- 1-2 outputs for charging
- Input voltage: 3 Phase 200 VAC, 60Hz



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DC Chargers Features

- Smart charging solution - takes care of grid load and varying charging demand
- Supports GB/T, CCS-2/CHAdeMO connector
- User-friendly app for EV owners to monitor charging and billing information
- Smart card, QR/App Server-based online payment
- Able to manage power loads, keeping it in sync with the charging load
- Grid responsive metering and billing

DC Chargers Benefits

- Interoperability
- Fast Charging
- Connectivity
- Interactive Display
- Set-and-Go
- Charge-all-Together

DC Chargers Application

- Commercial
- Fleet
- Parking
- Highways & Fuel Stations

DC Chargers
Technical Specifications

CCS-2 or CHAdeMO

Technical specs of Servotech DC Charger					
Input Power	Rated Power	15 kW / 20 kW	30 kW	50/60 kW	100/120 kW
	Input voltage	208 VAC 60 Hz/ 415V AC, 3 phase 50 Hz			
Output Power	Number of Output	1		1/2	
	Output current range	200A	100A	200A	200A
	Output Charging Outlet	GB/T 20234.3 compliance		CCS-2 or CHAdeMO	
	Output voltage	40-100Vdc		150-500 Vdc (CHAdeMO)	
				100-1000V	
User Interface and control function	Display	4.3 / 7 TFT LCD with touch			
	Push Button	Emergency Stop			
	User Authentication	RFID + OCPPv1.6			
Environment	Ambient Temperature	-30°C to 55°C			
	Storage Temperature	-40°C to 70°C			
	Altitude	<2000Mtr			
	Humidity	<95%,Non condensing			
Communication	External	WiFi, BT, Rs485, LAN / 4G / OCPP 1.6v			
	Metering and Billing	Grid Responsive metering and smart card, QR code scan/OTP/RFID card/APP Server Based Online Payment /OCPP based authentication			
	Charging Operation	Swipe card / Scan code / APP based authentication			
Protection	Input/Output protection	Over/Under voltage protection, Overload protection, Short circuit protection, Current leakage protection Grounding protection, Surge protection, Over/Under temperature protection (*protections are optional and based on user requirements)			
	Mechanical protection	IP54			
	Cooling	Forced Air cooling			
Regulation	As per	IEC 61851-1:2017, IEC 61851-21-2			
	Safety	CE			
	Certification	ARAI			
	Dimensions	1600mm*500mm*350mm (HxWxD)			
	Mounting	Wall / Floor mounted			

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Combo Chargers

Combo Charging Station

Available in 142 kW combo Charger
(60 kW CCS2 + 60kW CCS2 + 22 kW AC Type 2)

- Output range : 142 kW
- Charging guns : CCS2, Type 2
- 3 outputs for charging
- 3 Phase
- Smart charging station - Takes care of Grid load & varying charging demand
- Smart Card, QR/App serve based online payment

Combo Chargers Benefits

- Interoperability
- Set & Go
- Interactive Display
- Connectivity
- Fast Charging
- Charge all together

Combo Chargers Application

Commercial	Parking	Highway rest stops
EV Dealers	Petrol station	Busy urban areas etc...

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Combo Chargers
Technical Specifications

Technical specs of Servotech Combo Charger

Input Power	Rated Power	142 kW
	Input voltage	208 VAC 60 Hz/415V AC, 3 phase 50 Hz
Output Power	Number of Output	3
	Output current range	2 * 150 A/1*180 A Max
	Output Charging Outlet	60 kW CCS-2 + 60 kW CCS-2 + 22 kW AC Type 2
	Output voltage	100- 1000 Vdc
User Interface and control function	Display	7 TFT LCD with touch
	Push Button	Emergency Stop
	User Authentication	RFID + OCPPv1.6
Environment	Ambient Temperature	-30°C to 55°C
	Storage Temperature	-40°C to 70°C
	Altitude	<2000Mtr
	Humidity	<95%,Non condensing
Communication	External	WiFi, BT, RS485, LAN / 4G/OCPP1.6v
	Metering and Billing	Grid Responsive metering and smart card, QR code scan/OTP/RFID card/APP Server Based Online Payment/ OCPP based authentication
	Charging Operation	Swipe card / Scan code / APP based authentication
Protection	Input/Output protection	Over/Under voltage protection, Overload protection, Short circuit protection, Current leakage protection Grounding protection, Surge protection, Over/Under temperature protection (*protections are optional and based on user requirements)
	Mechanical Protection	IP54
	Cooling	Natural cooling
Regulation	As per	IEC 61851-1:2017, IEC 61851-21-2
	Safety	CE
	Certification	ARAI
	Dimensions	1800mm*750mm*500mm (HxWxD)
	Mounting	Floor mounted

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Servotech Cloud Based Charging Management System

Servotech Cloud Based Charging Management System enables seamless integration of chargers with back-end management system

User Authorization

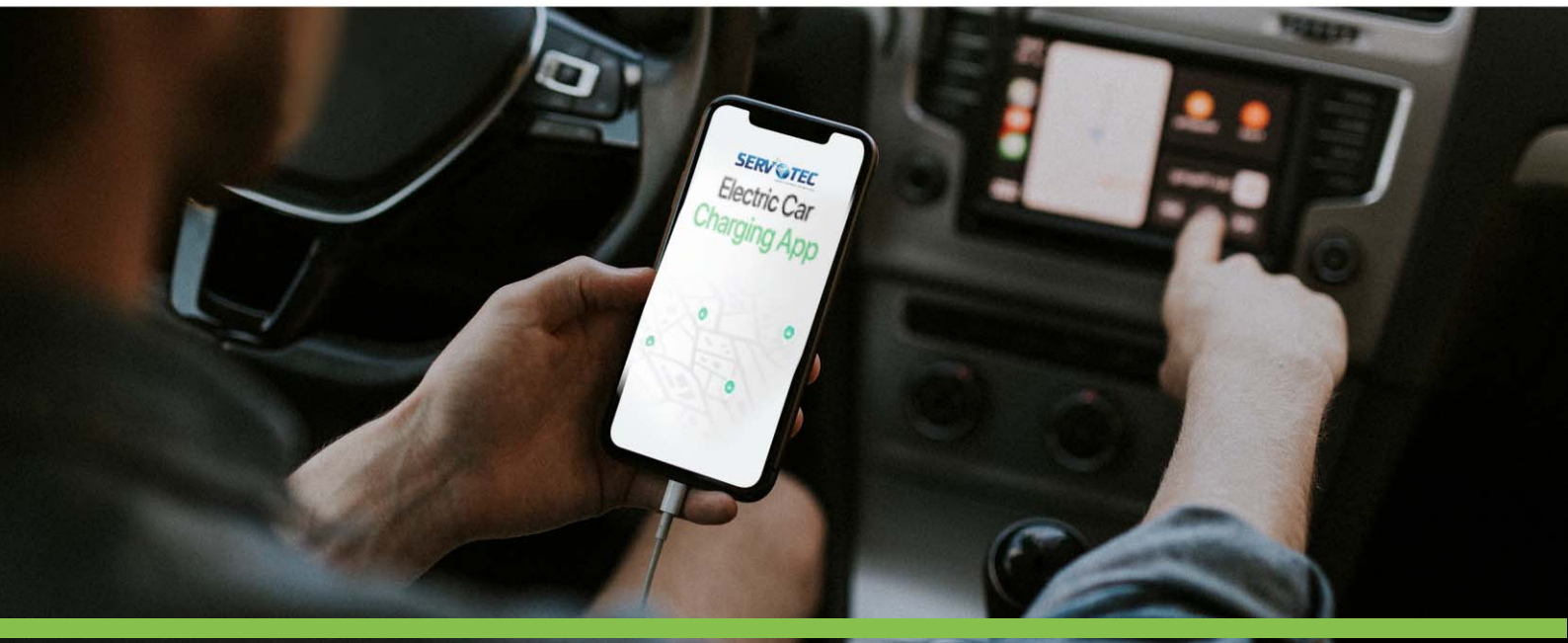
- QR based
- OTP based
- RFID based

Report Generation

- Capacity Utilization
- Charging Transactions
- Electricity Consumed

Payment Gateway

- Multiple payment gateway integrations including all major banks
- RazorPay/Paytm
- Coupons/Promo codes definition and utilization feature



Web & Mobile based Applications

Specification	Web based	Mobile application
Locate all Charging stations on the map with status indicators	●	●
Check the availability status, Operation timings, Estimated Charging Prices, Charging Point Status, Booking history of all the transactions	●	●
Charging Station Booking & Payment	●	●
Charging Station Directions	●	●
Navigate to a Charging Station	●	●
User Authorization (QR based/OTP based/RFID based)	●	●
Reporting Dashboard Track the capacity utilization, charging transactions, electricity consumed, charger status	●	●
Review and rate charging station and mark/unmark them as your favourite	●	●
OCPP transaction	●	●
Notifications and alerts	●	●
Charging station management	●	●
Firmware Upgrades	●	●

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