zerofootprint

Complete EV Charging Solutions



UNLEASH THE FUTURE OF EV CHARGING

ZEROFOOTPRINT

ZeroFootprint is your premier destination for a comprehensive suite of EV charging solutions designed for homes, businesses, and drivers alike. With a diverse range of AC and DC chargers catering to all 2. 3, and 4 wheeler electric vehicles, our mission is to spearhead the widespread adoption of electric mobility, ensuring a seamless transition to a greener future.

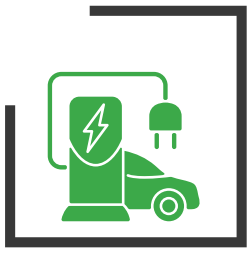
ELECTRIC VEHICLE CHARGING DESIGN SOLUTION

At ZeroFootprint, we take immense pride in delivering bespoke solutions that precisely match the unique charging requirements of different vehicle types. Our dedicated team handles every aspect of the process, from meticulous planning and expert designing to flawless electrical, civil, and installation work, ensuring your charging infrastructure operates at its optimum efficiency. Our service network is spread across India covering 400+ cities, 25+ States and 100+ partner engineers within a 50 km radius of each charger, ensuring less than 24 hours of turnaround time.

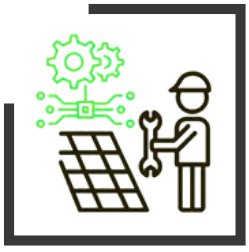
CHARGE MANAGEMENT SOFTWARE (CMS)

Our expertise transcends traditional installations With our state-of-the-art in-house developed ZeroFootprint Charging Management Software (CMS) and user-friendly Mobile App, effortlessly manage and monitor your EV charging network, and seamlessly pay and charge, while gaining valuable insights into charging patterns and usage.

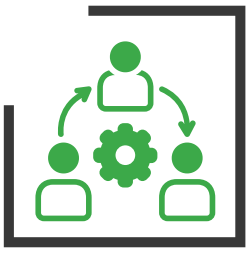
COMPLETE EV CHARGING SOLUTIONS



Desgin an EV Charging Station



Supply, Install & Commission



Maintenance and After Sales Support

JOIN THE GREEN REVOLUTION TODAY

Embrace the power of ZeroFootprint's complete EV charging solutions. Elevate your infrastructure, reduce carbon emissions, and become a driving force towards a cleaner and more sustainable tomorrow. Discover the electrifying future of mobility with ZeroFootprint.

SERVICES

EV and EVCs ORIENTATION

Presentation to the client team on EV fundamentals, market status, types of chargers, and discussion about the EV ecosystem and monitoring fundamentals.

ADVICE - POLICY, GUIDELINES & COMPLIANCES

Advice clients on central, state and local policies. Brief about present guidelines, guide on current compliance checks and possible benefits on tax rebates and SOP's.

LOCATION SCOUTING FOR INVESTORS

We we facilitate seamless connections for investors seeking to invest in an EV charging station with potential locations such as hotels, malls, commercial parks, open land etc.

BUSINESS MODEL DEVELOPMENT

Develop a full stack business model for setting up charging stations and present a SWOT analysis of subject site post detailed analysis.

ARCHITECTURE AND MEP DESIGN

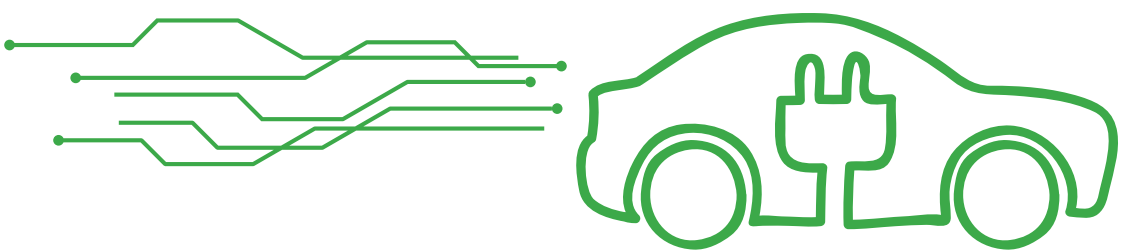
Coordinate with consulting architects and MEP consultants to make an on-going/in making project EV complaint, and design an international grade charging station.

SOFTWARE INTEGRATION AND AUTOMATION

Integration with the ZeroFootprint CMS and app with advanced features that allow users to streamline operations, enhance user experience, and gain valuable insights into the charging process.

MAINTENANCE AND SUPPORT

Comprehensive annual maintenance plans (AMC), and after sales support services to ensure the reliability and longevity of the charging infrastructure.



Product
RANGE

AC SMART SOCKETS

ZeroFootprint 3.3 kW AC Smart Socket - Basic 5

ZeroFootprint 3.3 kW AC Smart Socket - Pro..... 6

ZeroFootprint Bharat AC001 3-PIN Smart Socket Charger..... 7

AC CHARGERS

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DC CHARGERS

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ZeroFootprint / EXICOM 120-360 kW DC Charger..... 15

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Industrial Sockets



Mennekess (Type 2)



CCS 2

ZeroFootprint AC Smart Socket - Basic

3.3 kW

2, 3 and 4 Wheeler EVs | RFID only |
Basic Protections



	Specification	3.3 kW
Power Output	Output Voltage Rating	230 VAC
	Max. Output Current	16A
	Max. Output Power	3.3 kW
	Output Plug	3 PIN Domestic/Industrial Socket
	No of Sockets	1
Power Input	Input Voltage	230 VAC, 1-phase/L1 N. PE
	No of I/P Phase	1
	Input Frequency	50 Hz
Protection Fault and Safety	Safety Parameters	Over Current, Over Voltage, Under Voltage, Ground Fault
	IP Rating	IP54 Rated
Other Specification	Display	Character Display
	LED Indication	Yes
	Connectivity	RFID
	Metering	In-built Metering
	Usage	Indoor/Outdoor
	Operating Altitude	2000 mtr
	Enclosure Type	Metal
	Mounting-Arrangement	Wall Mountable/Pedestal (Optional)

ZeroFootprint AC Smart Socket - Pro

3.3 kW

2, 3 and 4 Wheeler EVs | RFID & OCPP



	Specification	3.3 kW
Power Output	Output Voltage Rating	230 VAC
	Max. Output Current	16A
	Max. Output Power	3.3 kW
	Output Plug	3 PIN Domestic/Industrial Socket
	No of Sockets	1
Power Input	Input Voltage	230 VAC, 1-phase/L1 N. PE
	No of I/P Phase	1
	Input Frequency	50 Hz
Protection Fault and Safety	Safety Parameters	Over Current, Over Voltage, Under Voltage, Ground Fault
	IP Rating	IP54 Rated
Other Specification	Display	OLED 1.3 Inch
	LED Indication	Yes
	Network Connection	RFID, Wifi/GSM (Optional)
	Metering	In-built Metering
	Communication Protocol	OCPP 1.6J
	Usage	Indoor/Outdoor
	Operating Altitude	2000 mtr
	User Authentication	QR Code, Plug & Charge, Mobile App, RFID
	Enclosure Type	Metal
	Mounting-Arrangement	Wall Mountable/Pedestal (Optional)

ZeroFootprint 3X3 PIN Smart Socket Charger

AC001 10 kW

2, 3 and 4 Wheeler EVs



	Specification	AC001 10 kW
Power Output	Output Voltage Rating	230 VAC
	Max. Output Current	Upto 15A per Port
	Max. Output Power	3 x 3.3 kW
	Output Plug	3 PIN Domestic/Industrial Socket
	Number of Sockets	1
Power Input	Input Voltage	415 VAC, 3-phase/L1, L2, L3, N, PE
	No of I/P Phase	1 per Port
	Input Frequency	50 Hz
Protection Fault and Safety	Safety Parameters	Over Current, Over Voltage, Under Voltage, Ground Fault, Switching Surge
	IP Rating	IP54 Rated
Other Specification	Display	Character Display
	LED Indication	Yes
	Network Connection	Wifi/GSM (Optional)
	Metering	In-built Metering
	Communication Protocol	OCPP 1.6J
	Emergency Switch	Available (Red Switch)
	Usage	Indoor/Outdoor
	Operating Altitude	2000 mtr
	User Authentication	QR Code, Plug & Charge, Mobile App, RFID
	Enclosure Type	Metal
	Mounting Arrangement	Wall Mountable/Pedestal (Optional)

Return On Investment

AC SMART SOCKETS

Customer invests on a 3.3 kW AC Smart Socket at the cost of **INR 13,000 + 5,000** for Installation **= INR 18,000**

Per unit cost of electricity from the DISCOM = approx Rs 8 per kW

The per unit (per kWh) charging rate = Rs 20 for end drivers

Assuming 2 vehicles are charged per day at the station, from a 10%

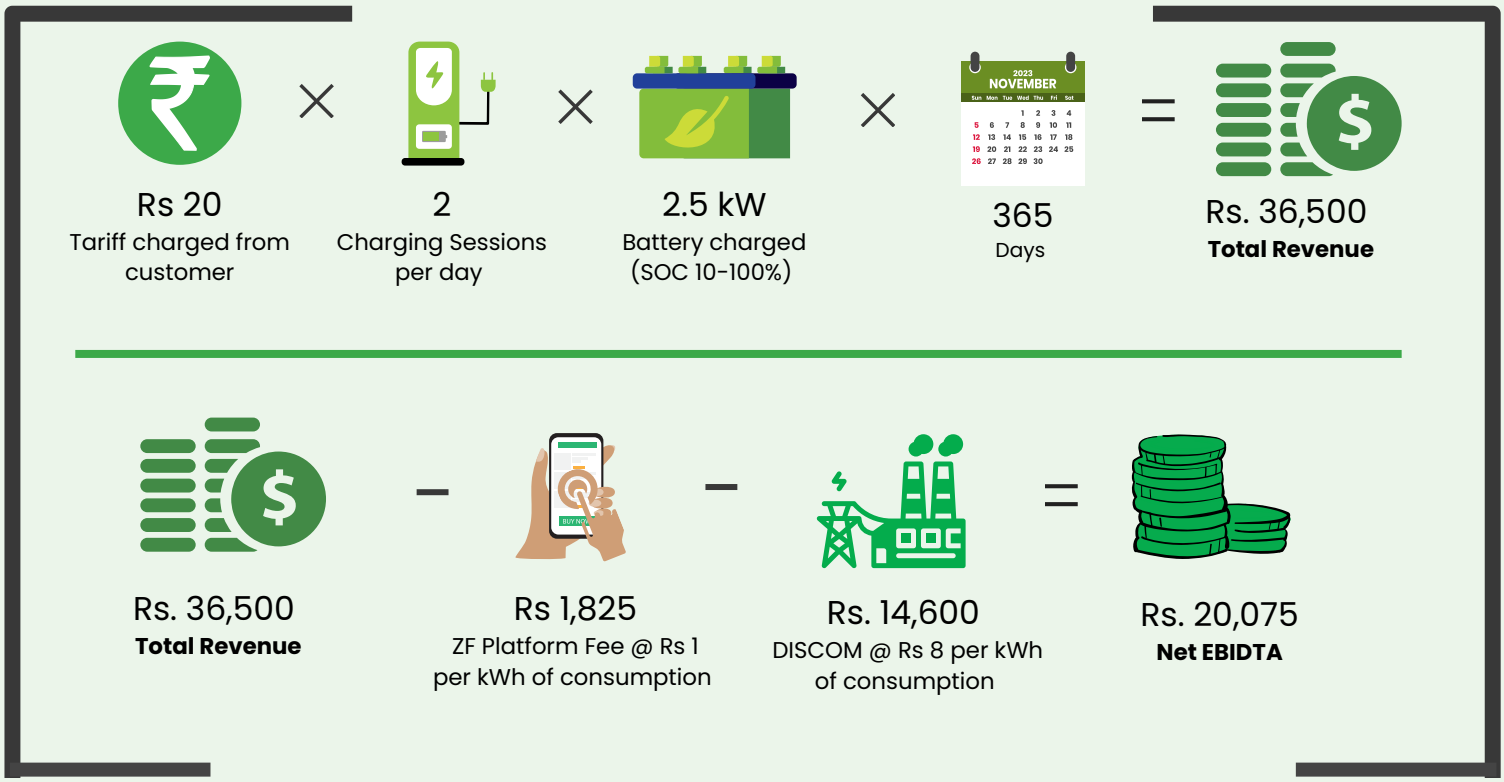
battery charge to 100%

10% - 100% battery charge = total consumption of 2.5 kW per vehicle

Total units consumption for 2 vehicles per day = 5 kW

Total revenue per day = 5 kW * Rs 20/kW = Rs 100

Total revenue per year = 100 * 365 = Rs 36,500



ROI = (18,000 / 20,075) X 12 = 10-11 months

ZeroFootprint Portable Charger

3.3 / 7.2 kW

4 Wheeler EVs



	Specification	3.3 kW	7.2 kW
Power Output	Output Voltage	230 Vac ± 15%, 50Hz	
	Number of Output	1	
	Rated Current	16A	32A
	Output Power Rating	3.3 kW	7.2 kW
	Connector	IEC 62196 Type 2	
Power Input	Input Voltage	230 Vac ± 15%, 50Hz	
	Wires	3 Wire, L,N,PE	
Protection and Safety	Protection	Over Voltage, Under Voltage, Over Current, Over Temperature, Ground Fault Protection, Short Circuit, Surge Protection, Residual Current.	
	IP Rating	IP 67	
Other Specification	Ambient Temperature	-20°C to 60°C	
	Storage Temperature	-20°C to 60°C	
	Altitude	<2000 mtr	
	Humidity	5% to 95%, non-condensing	
	Display	RBG	
	User Authentication	Plug and Play	
	Charger and Vehicle	IEC 62196, IEC 61851	
	Ingress Protection (IP)	Indoor & Outdoor	
	Wire Length	5 mtr	
	Dimension (WXDXH)	83mm*75mm*201mm	
	Weight	2.2kg	

ZeroFootprint AC Charger

7.4 / 11 / 22 kW

Type 2 | Single Gun | Dual Gun Option
4 Wheeler EVs



	Specification	7.4 kW	11 kW	22 kW
Power Output	Output Voltage	Single Phase 240V	Three Phase 415V	
	Number of Charging Outlets	1		
	Rated Current	32A	16A	32A
	Output Power Rating	7.4 KW	11 KW	22 KW
	Standards	IS17017		
	Socket or Connector Type	Type 2 Cable with Gun		
	Output Cable Length	5 meter		
Power Input	Input Voltage	Single Phase 240V	Three Phase 415V	
Protection and Saftey	Protection	Overcurrent, Undercurrent, Overvoltage, Undervoltage, Ground Fault, DC Residual Current Protection		
Other Specification	Metering	In-built Metering		
	Network Connection	Wifi / 4G (Optional)*		
	Communication Protocol	OCPP 1.6J		
	User Authentication	QR Code, Plug & Charge, Mobile App, RFID		
	Indication	LED Indication (Red, Green, Blue)		
	Usage	Indoor / Outdoor with Canopy		
	Operating Altitude	2000 mtr		
	Push Button	2000 mtr	Available (Red Switch)	
	Display	Character Display		
	Mounting Arrangement	Wall (Pedestal Optional)*		
	Standard Warranty	12 Months		

ZeroFootprint AC Type 2 Test Kit

EV Simulator

Type 2 | 4 Wheeler EVs



Specification	Details
Features	Supports IEC 61851 mode 2 & 3 protocols- Proximity Pilot circuit testing- Control Pilot circuit testing- Charging states testing
	Protective Earth testing- CP-Earth fault testing- Cable current setting facility- Extra cable capacitance option
	Energy, voltage, and current parameter display in charging state only- Earth leakage indication via LED
	Banana socket output for CP waveform capture - External single phase 15A load connection via 3-Pin socket
	Banana socket outputs for 3-phase external load connection up to 15A- Visualization of every vehicle state via oscilloscope
Hardware Requirements	Type 2 AC charger with socket or plug - Type 2 to Type 2 cable (for socket)- External CRO for PWM signal capture
	Banana plugs for jumper connection - External 1-phase or 3-phase load up to 15A
Operation	Switching on by inserting the charging plug- Earth Leakage Test (trigger via TST key, > 30 mA leakage current)
	CP-PE Fault Test (120 Ω resistance, check short circuit between control pilot and protective earth)
Protective Earth Testing	Checks PE connection- Interrupts connection between PE and CP, switching off the charging process
Proximity Pilot (PP)	Tests charge cable detection and current limitation- Resistor coding for maximum current capability of the cable
Control Pilot (CP)	Wire connection between EV and EV charger- Safety measure for the charging process- PWM signal visualization via external CRO
Charging States	State A: Available- State B: Preparing- State C: Charging without ventilation- State D: Charging with ventilation
Cable Capacitance	Measures capacitance in pF/m or pF/ft- Option to add extra cable capacitance of 1500pF
Output (External Load Connection)	Single Phase: Banana sockets for L1, L2, L3, Neutral & Earth- Three Phase: Individual single phase load connection using L1, L2, L3, and Neutral

Return On Investment

AC CHARGERS

Customer invests on a 7.5 kW AC Charger at the cost of **INR 50,000 + 40,000** for Installation **= INR 90,000**

Per unit cost of electricity from the DISCOM = approx Rs 8 per kW

The per unit (per kWh) charging rate = Rs 15 for end drivers

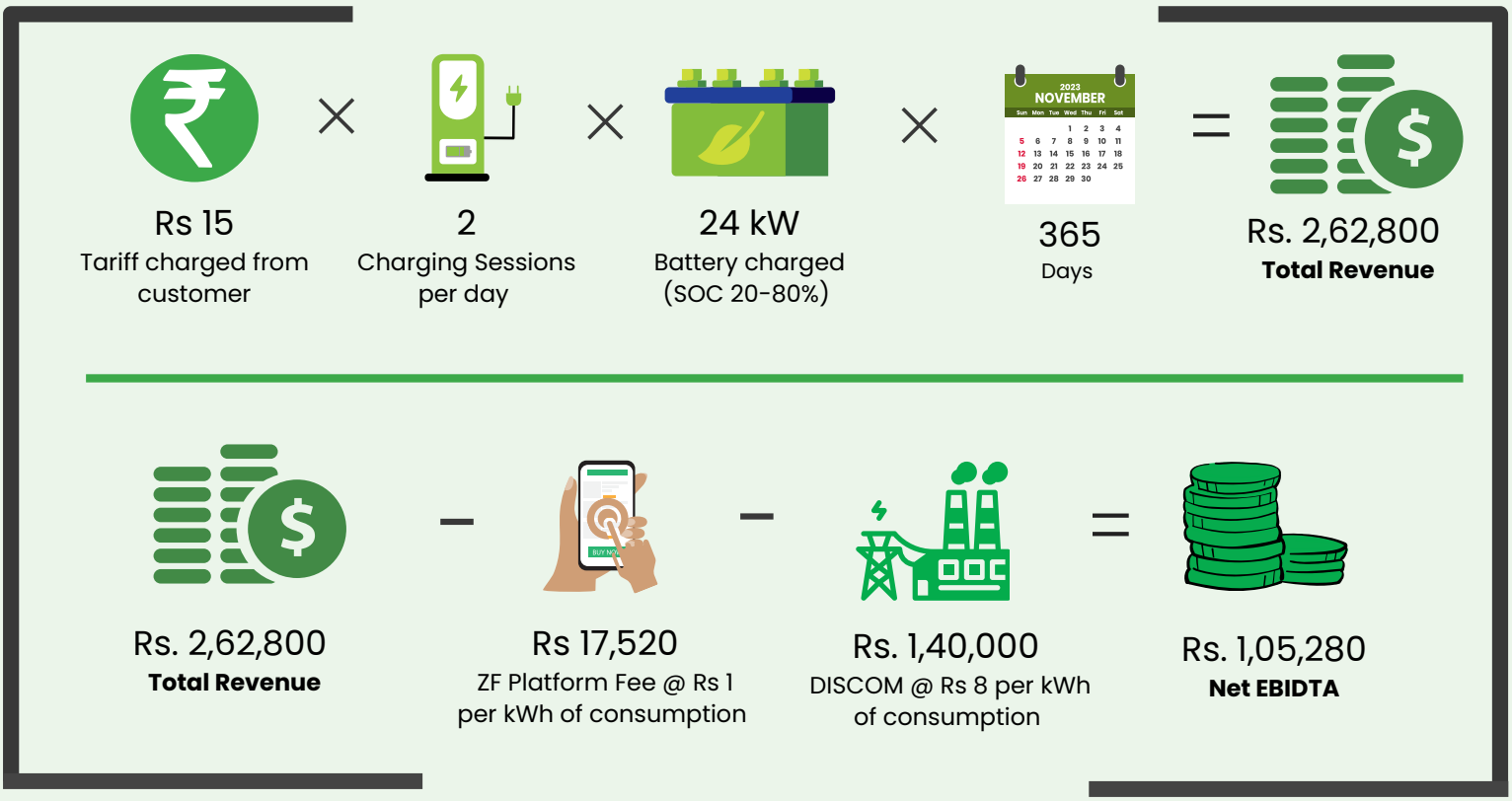
Assuming 2 cars (Tata Nexon EV prime) are charged per day at the station, from a 20% battery charge to 100% (Total 7 hours of utilisation per day)

20% - 100% battery charge = total consumption of 24 kW per car (Nexon EV prime has a 30 kW battery size)

Total units consumption for 2 cars per day = 48 kW

Total revenue per day = 48 kW * Rs 15/kW = Rs 720

Total Revenue Per Year = 720 * 365 = Rs 2,62,800



ROI = (90,000 / 1,05,280) X 12 = 10-11 months

ZeroFootprint DC Charger

15 - 30 kW

CCS2 / GBT | Single Gun | Dual Gun | DLM
4 Wheeler EVs



	Specification	15 kW / 30 kW (GBT)	15 kW / 30 kW (CCS2)
Power Output	Output Voltage	20-120VDC, 15 kW max	100-1000VDC, 30 kW max
	Number of Charging Outlets	One for Single Gun and Two for Dual Gun	
	Rated Current	80A max per Gun	
	Output Power Rating	15 kW	30 kW
	Standards	AIS138-2	IEC62196 and IEC 61851
	Socket or Connector Type	GBT Connector	CCS2 Connector
	Output Cable Length	5 meter Cable with Connector	
	Charging Type	Mode 4	
	Efficiency at full Load	>=94%	
	Power Factor	> 0.98	
	Operating Temperature	-40 deg.C to +55 deg.C	
	Storage Temperature	-40 deg.C to +85 deg.C	
Power Input	Input Voltage	Three Phase 415V, 50Hz	
	Input Wires	Three Phase 5 Wire AC	
Protection and Saftey	Protection	Overcurrent, Overvoltage, Undervoltage, Earthfault, AC residual current protection, Surge Protection	
Other Specification	Cooling	Forced Air	
	Network Connection	Wifi / 4G / LAN	
	Communication Protocol	OCPP 1.6J	
	User Authentication	QR Code, Plug & Charge, Mobile App, RFID	
	Payment	Online through Mobile App Wallet	
	Ingress Protection	IP54	
	Operating Altitude	<=2000 mtr	
	Push Button	Emergency Stop Button	
	Display	7” Color LCD Touch Screen Display	
	Mounting Arrangement	Wall / Pedestal (optional)	
	Standard Warranty	12 Months	

ZeroFootprint DC Charger

60 kW

CCS2 | Single Gun | Dual Gun | DLM
4 Wheeler/Commercial EV



	Specification	60 kW
Power Output	Output Voltage Rating	200-1,000 VDC
	Max. Output Current	125 A
	Max. Output Power	60 kW
	Output Plug	CCS2
	No.cof Outputs	2
	Efficiency	⩾ 95% for 50% loads 100% at Nominal IP Voltage
Power Input	Input Voltage	415 VAC, 3-Phase/L1, L2, L3, N, PE
	No of I/P Phase	3
	Input Voltage Range	320 VAC-520 VAC
	Input Frequency	50/60 Hz
	Power Factor	> 0.98
Protection and Saftey	Safety Parameters	Over Current, Under Voltage, Over Voltage, Residual Current, Surge Protection, Short Circuit, Over Temperature Ground Fault, Insulation Fault, Emergency Stop
	Water Resistance	IP54 Rated
	Emergency Swtich	Available (Mushroom Red Switch)
Other Specification	Connectivity	Ethernet (Standard); 3G/4G (Optional)
	Communication	OCPP v1.6J
	Display	7" LCD Touch Screen
	Support Language	English
	Dimensions	1,850 650 510 mm (Excluding Pedestal)
	Weight	10-12 kg
	Charging Operation	Standalone
	Visual Indication	Presence of Supply, State of Charging, Error
	User Authentication	RFID, QR Code, Plug & Charge, Mobile App

ZeroFootprint DC Charger

120 - 400 kW

CCS2 | Single Gun | Dual Gun | DLM
4 Wheeler | Commercial EVs



	Specification	120 kW	240 kW	360 kW
Power Output	Output Voltage Rating	200-1,000 VDC		
	Max. Output Current	200 A	300 A	400 A
	Max. Output Power	120 kW	240 kW	360 kW
	Output Plug	CCS2		
	No. of Outputs	2		
	Efficiency	⩾95% for 50% loads 100% at Nominal IP Voltage		
Power Input	Input Voltage	415 VAC, 3-Phase/L1, L2, L3, N, PE		
	No of I/P Phase	3		
	Input Voltage Range	320 VAC-520 VAC		
	Input Frequency	50/60 Hz		
	Power Factor	> 0.98		
Protection and Saftey	Safety Parameters	Over Current, Under Voltage, Over Voltage, Residual Current, Surge Protection, Short Circuit, Over Temperature. Ground Fault, Insulation Fault, Emergency Stop		
	Water Resistance	IP54 Rated		
	Emergency Swtich	Available (Mushroom Red Switch)		
Other Specification	Connectivity	Ethernet (Standard); 3G/4G (Optional)		
	Communication	OCPP v1.6J		
	Display	7" LCD Touch Screen		
	Support Language	English		
	Dimensions	1,810 * 720 * 639 mm	1,885 * 795 * 820 mm	1,885 * 795 * 220 mm
	Weight	210-230 kg	280-300 kg	380-400 kg
	Charging Operation	Standalone		
	Visual Indication	Presence of Supply, State of Charging, Error		
	User Authentication	RFID, QR Code, Plug & Charge, Mobile App		

ZeroFootprint AC & DC Test Kit

EV Simulator

Type 2 | CCS2 | 4 Wheeler | Commercial EVs



Specification	Details
Input Voltage	230VAC +/- 10%
AC Input Connection	P+N+PE
Frequency	50Hz
Voltage Measurement	Range: 0 to 1000V DC Resolution (Display): +/- 1 V Accuracy (not calibrated): +/- 1 V
Current Measurement	Range: 0 to 100 A Resolution (Display): +/- 100 MA Accuracy (not calibrated): +/- 0.5 A
Connector Type	IEC 62196-3 Industrial Socket
Number of Connectors	CCS2 DC - 1
Display	Resistive Type 7" TFT display
Communication Protocol	ISO 15118
Operating Temperature	0 °C to +70°C
Storage Temperature	0 °C to +70°C
Humidity	5% to 95%
Size	Suitcase: Approx. L= 610mm, B = 440mm, H = 326mm
Water Resistance according to IEC 60529	Closed Lid: IP66; Open Lid: IP43

Return On Investment

DC CHARGERS

Customer invests on a 30 kW DC Charger at the cost of **INR 7,00,000 (Charger, Installation, etc.)**

Per unit cost of electricity from the DISCOM = approx Rs 8 per kW

The per unit (per kWh) charging rate = Rs 25 for end drivers

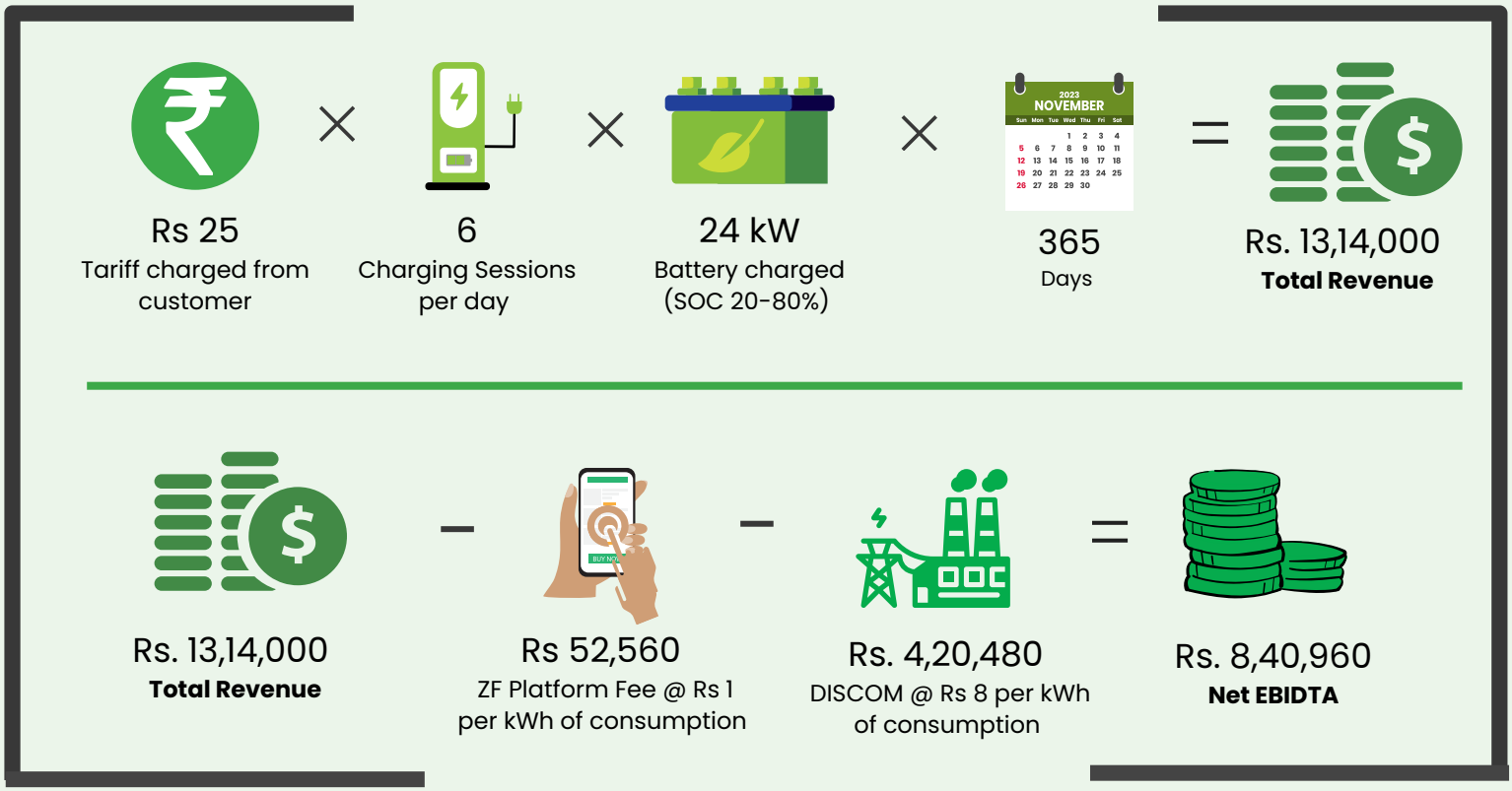
Assuming 6 cars (Tata Nexon EV prime) are charged per day at the station, from a 20% battery charge to 100% (Total of 5 hours of utilisation per day)

20% - 100% battery charge = Total consumption of 24 kW per car (Nexon EV prime has a 30 kW battery size)

Total units consumption for 6 cars per day = 144 kW

Total revenue per day = 144 kW * Rs 25/kW = Rs 3600

Total Revenue Per Year = 3600*365 = Rs 13,14,000



ROI= (7,00,000/8,40,960) X 12 = 9 - 10 Months

Our

APPLICATION

With the ZeroFootprint CMS and Mobile App, we offer advanced software integration services that enable seamless connectivity and management of the EV charging infrastructure. Our solution allows for remote monitoring, user management, billing, and reporting, giving you full control and visibility over your charging operations. Users can search and book a ZeroFootprint Charger nearby and schedule a charging session on the go with the help of cutting-edge technology, a world class server and software platform.

FEATURES



E-Wallet

With an e-wallet, you can pay securely for your charging transactions. A minimum balance is required to initiate charging.



Control Charging

Al the tap of a button on your app screen, you can easily Initiate or terminate your EV charging session.



Track Nearby Stations

With the ZeroFootprint app, you can easily locate nearby EV changing stations and also navigate from the application itself.



Book a Slot

Prevent hours af idling by booking slot using the application at your desired public EV charging station.



Register your EV

To be able to access the features of the ZeroFootprint app, you are required to register your EV in the app with all the primary details.



Transaction History

Determine your conveyance cost, with a detailed transaction history available within the ZeroFootprint app.

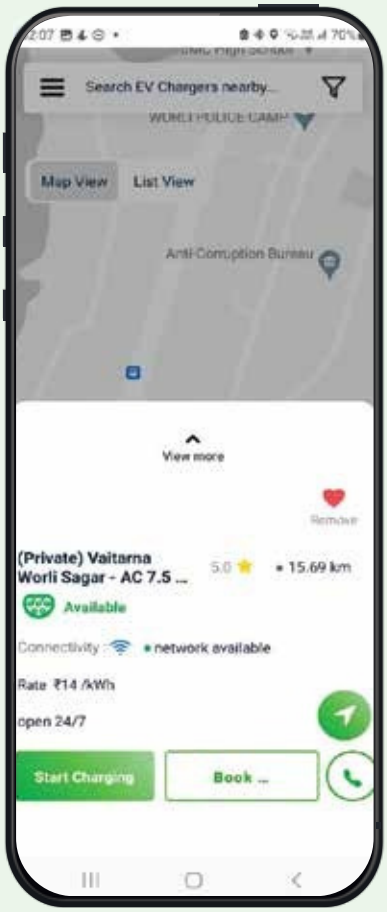
STEPS TO CHARGE YOUR ELECTRIC VEHICLE

- Search Nearest Compatible EV Charger
- Book Your Charging Session in Advance
- Pay Using Wallet, UPI, Credit/Debit Cards, Netbanking etc.
- Scan The Barcode, Pay And Start Charging
- Access Charging Reports & Analytics

Download on the App Store

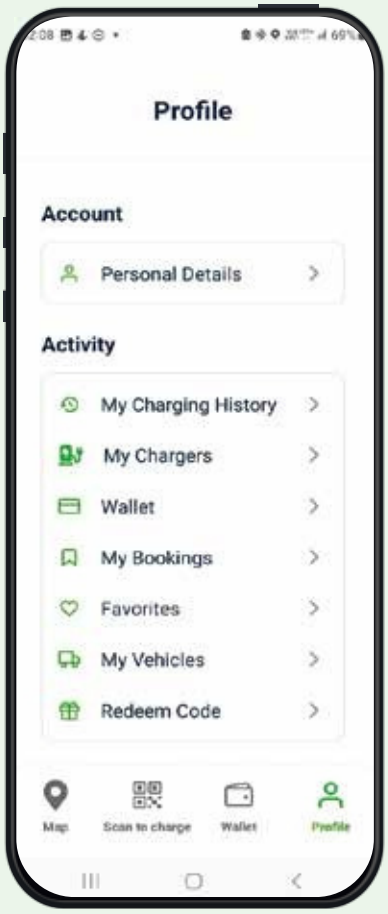
Available on the Google Play Store

SCAN THE QR CODE TO DOWNLOAD THE APP


Search EV Chargers nearby...
Map View
List View
Anti-Corruption Bureau
View more
Remove
(Private) Vaitarna
Worli Sagar - AC 7.5 ...
5.0
• 15.69 km
Available
Connectivity
• network available
Rate ₹14 /kWh
open 24/7
Start Charging
Book ...


Search EV Chargers nearby...
Map View
List View
Scan QR Code to start charging your Electric Vehicle
Torch
Enter Device ID
Find Device id below QR Code


Current Balance
₹ 1611.17
Add Money
Withdraw
Transactions
Amount
+ ₹100
+ ₹200
+ ₹500
+ ₹1000
Deposit Money
Map
Scan to charge
Wallet
Profile


Profile
Account
Personal Details
Activity
My Charging History
My Chargers
Wallet
My Bookings
Favorites
My Vehicles
Redeem Code
Map
Scan to charge
Wallet
Profile

zerofootprint

Complete EV charging solutions

Corporate Address: F-273, Solaris 1, Saki Vihar Road,
Powai, Mumbai - 400 072, Maharashtra, India

Phone: +91 86559 97128, 8655 997130 | e-mail: sales@zerofootprint.in

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