

# Electric Vehicle Charging Solutions

## India's largest EV Charging Company

VOLTtic is a leading solution provider of smart EV charging infrastructure and services.

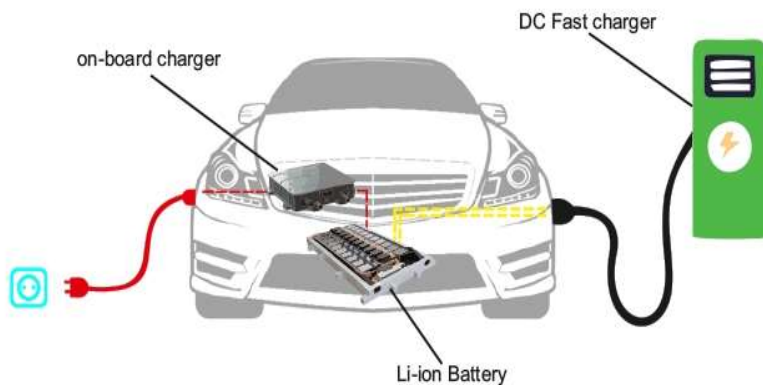
Our Hundred of chargers in operation prove their reliability while contributing to a profitable charging business and a cleaner environment.

Our Innovative Smart Charging Platform with analytic & Reporting tools helps charge station owner to keep updated all about EV Charging.



Volttic.com

# Alternating Current (AC) Vs Direct current (DC) Charging



**AC Charging:** AC Power is supplied from the charging station to the on-board charger, which supplies DC Power to the Batteries.

**DC Fast Charging:** DC Charger is off unit- which itself convert AC Power to DC and supplies directly to vehicle battery.

## EV Charging 101



### Level 1- AC Slow Charging

- 1 Hrs. Of Charging gives 20 Km. For driving
- Single Phase Supply is required
- Preferred option for Home charging

### Level 2- AC Fast Charging

- 1 Hrs. Of Charging gives 50 Km. For driving
- Three Phase Supply is required
- Preferred option for workplace charging

### Level 3- DC Quick Charging

- 50 Min. Of Charging gives 80% battery SOC.
- Public & commercial charging Only
- Preferred charging method for Fast charge

## Where to Charge?



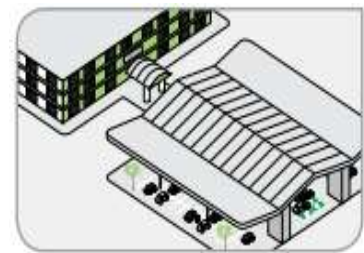
At Home



At Home-condominium



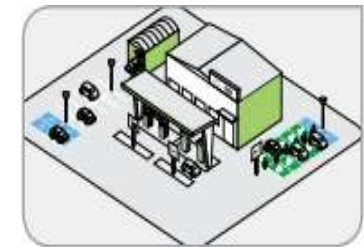
At Work



Private Parks



On-Street



At Service Station

## What we Do?

We Provides complete Package solution that you needs to electrify car parks-from site feasibility check to EVCS I&C and after sale service Support and repair.

Our smart charging app enable services over network.

Our team of Expert help you at each step- having presence in all Major cities of India.





## General Specification

- ✓ Charging Mode: Mode 4
- ✓ Efficiency : 94%
- ✓ Total No. Of Outputs: 1Nos.or 2Nos.
- ✓ Connector Type : GB/T DC (20234.3)

## Installation

- ✓ Indoor Pedestal Mount
- ✓ Outdoor Pedestal Mount
- ✓ Indoor/outdoor standee Mount (Optional) for solid ground level surface

## Electrical & Mechanical Protection

- ✓ Electrical: Under Vtg, Over Vtg, Over Current, Surge Protection, Over temp. Single Phasing, Residual current.
- ✓ Ingress Protection: IP 55, IK08 vandal-proof
- ✓ Cooling : Force Air cooled
- ✓ 7" Colour Display Touch
- ✓ Dimension: 765 MM(W)X1800MM(H)X4000 MM(D)

## Communication & Connectivity Features

- ✓ Charger & CMS : OCPP 1.6 or Higher
- ✓ Network: GSM (3G/4G), Ethernet

## Environmental Features

- ✓ Ambient temp. : 0-55 deg C
- ✓ Storage temp. : 0- 70 deg C
- ✓ Altitude : < 2000 Mtrs.
- ✓ Humidity : < 95%, non-condensing

## Application

- ✓ Tata Tigor EV & E-verito EV 4W Models
- ✓ Tata Neo (Nano) & Upcoming GB/T Cars
- ✓ Suitable GB/T Based 2W & 3W.



## Key Features

- ◆ GB/T DC (20234.3) Charging Plug.
- ◆ User Friendly interface & RFID Authentication
- ◆ Wired/wireless connectivity for integration with CMS
- ◆ Modern and stylish appearance design.
- ◆ Built-In network connectivity (OCPP)
- ◆ Available in 2 models 15KW Single Output & 15KW+15KW Dual Plug output
- ◆ 5Mtrs Charging Plug

## General Specifications

### Power Supply Network & Charging Mode

- ✓ I/O Power Supply:
  - 1) For 15KW Model (3 Phase)  
380VAC- 440VAC, 3Phase+N+Earth, 50 Hz.  
O/P Power Supply: 48VDC, 60VDC, 72VDC, 100VDC at current up to 200ADC for 15KW output.
  - 2) For 15KW+15KW Model (3 Phase)  
380VAC- 440VAC, 3Phase+N+Earth, 50 Hz.  
O/P Power Supply: 48VDC, 60VDC, 72VDC, 100VDC at current up to 200ADC for 15KW+15KW output.

# 25KW (CCS2+CHAdEMO) EV DC CHARGER



## Installation

- ✓ Indoor wall Mount
- ✓ Outdoor Wall Mount
- ✓ Indoor/outdoor standee Mount (Optional) for solid ground level surface

## Electrical & Mechanical Protection

- ✓ Electrical: Under Vtg, Over Vtg, Over Current, Surge Protection, Over temp. Single Phasing, Residual current.
- ✓ Ingress Protection: IP 55, IK08 vandal-proof
- ✓ Cooling : Force Air cooled
- ✓ 2.3'' OLED Display
- ✓ Dimension: 680 MM(W) X 430MM(H) X 230 MM(D)

## Communication & Connectivity Features

- ✓ Charger & CMS : OCPP 1.6 or Higher
- ✓ Network: GSM (2G/3G), Ethernet

## Environmental Features

- ✓ Ambient temp. : -30-55 deg C
- ✓ Storage temp. : -40- 70 deg C
- ✓ Altitude : < 2000 Mtrs.
- ✓ Humidity : < 95%, non-condensing

## Key Features

- ◆ CCS2+CHAdEMO Dual Charging Port
- ◆ User Friendly interface & RFID Authentication
- ◆ Wired/wireless connectivity for integration with CMS
- ◆ Modern and stylish appearance design.
- ◆ Built-In network connectivity (OCPP)
- ◆ 4Mtrs Charging Plug

## General Specifications

### Power Supply Network & Charging Mode

- ✓ I/P Power Supply:  
380VAC- 440VAC, 3Phase+N+Earth, 50 Hz.
- ✓ O/P Power Supply:  
**Output 1:** IEC CCS Combo 2, 200-500 VDC, 60A max, 25KW max. (Optional: SAE DC)  
**Output 2:** CHAdEMO, 50-500 VDC, 60 A max, 25 KW max, DIN 70121

### General Specification

- ✓ Charging Mode: Mode 4
- ✓ Efficiency : 94%
- ✓ Total No. Of Outputs: 2Nos.(CCS2+CHAdEMO)

## Application

- ✓ All Electric 4W SUV Cars  
**CCS2-** MG ZS, Kona, Nexon, Volvo, Jaguar, Mercedes, Ford, BMW, Renault, & upcoming future upcoming EV's. **CHAdEMO:** Nissan leaf







## Output Plug configuration

- ✓ CCS2+CCS2
- ✓ CCS2+CHAdEMO
- ✓ GB/T + GB/T
- ✓ CCS2+CHAdEMO+AC Type 2 (22KW)

## Installation

- ✓ Indoor Pedestal Mount
- ✓ Outdoor Pedestal Mount
- ✓ Indoor/outdoor standee Mount (Optional) for solid ground level surface

## Electrical & Mechanical Protection

- ✓ Electrical: Under Vtg, Over Vtg, Over Current, Surge Protection, Over temp. Single Phasing, Residual current.
- ✓ Ingress Protection: IP 55, IK08 vandal-proof
- ✓ Cooling : Force Air cooled
- ✓ 7" Touch Display color
- ✓ Dimension:860 MM(W) X 1900MM(H)X 875 MM(D)

## Communication & Connectivity Features

- ✓ Charger & CMS : OCPP 1.6 or Higher
- ✓ Network: GSM (3G/4G), Ethernet

## Application

- ✓ All Electric 4W Cars & Buses suitable with CCS2, Type2, GB/T & CHAdEMO based charging Interface



## Key Features

- ◆ Multi Charging Fast Port
- ◆ User Friendly interface & RFID Authentication
- ◆ Wired/wireless connectivity for integration with CMS
- ◆ Simultaneous charging of cars & Buses.
- ◆ Built-In network connectivity (OCPP)
- ◆ 5Mtrs Charging Plug

## General Specifications

### Power Supply Network & Charging Mode

- ✓ I/P Power Supply:  
380VAC- 440VAC, 3Phase+N+Earth, 50 Hz.
- ✓ O/P Power Supply:  
Output Power: 200-1000VDC Or 300-750VDC  
And current up to 125A Max.

### Output Power configuration

- ✓ 100KW Dual Gun
- ✓ 122KW Three Gun
- ✓ 150KW Dual Gun
- ✓ Dual DC Charging

# VOLTTIC -STAY CHARGED (SMART EVCS MANAGEMENT PLATFORM)



**Live Monitoring**  
Monitor charging session over internet



**Reports & Utility**  
Access charge station consumption as per machine and location with charging point operation settings.



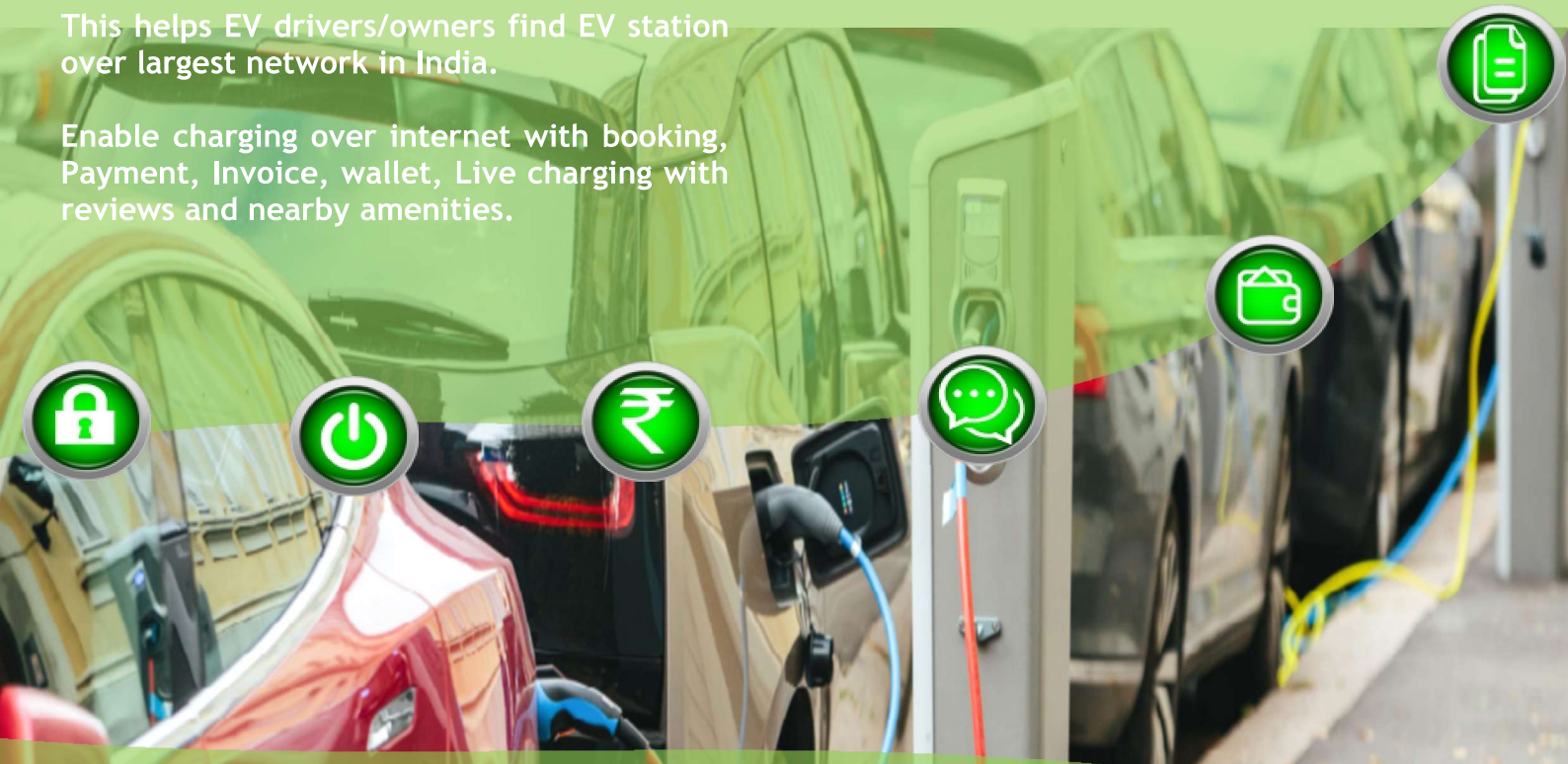
**Revenue & flexible tariff**  
Control charge station tariff as per demand sync with Power grid and generate revenue with charge on GO

## Electric Mobility as Service (e-MSP)

Volttic has developed an smart charging management cum cloud based services and operations platform that interact with hardware through OCPP protocol and collect data used for reporting and analytics.

This helps EV drivers/owners find EV station over largest network in India.

Enable charging over internet with booking, Payment, Invoice, wallet, Live charging with reviews and nearby amenities.



**TVESAS Electric Solutions Private Limited**

Reg.Off: New Colony, Bijaura, Bhawarnath, Azamgarh, Uttarpradesh 276001

Mobile : +91-9711829983 Email: [contact@volttic.com](mailto:contact@volttic.com) Website: [www.volttic.com](http://www.volttic.com)