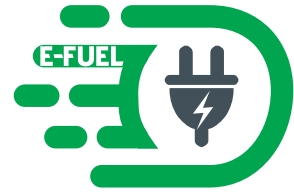
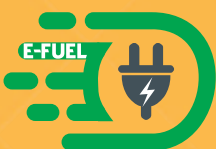


# E-FUEL

Park • Charge • Accelerate

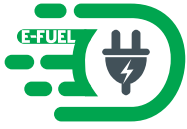


AC/DC Electric Vehicle Charger



(A Product of)

**HINDUSTAN SYSTEM** : U.G. 25 Kartar Arcade, Near Capital Petrol Pump,  
Raisen Road, Bhopal-23 Ph. : 0755-4246699, 2750235 Fax : 0755-4248439  
E-mail : [Enquiry@hindustansystem.in](mailto:Enquiry@hindustansystem.in) Website : [www.hindustansystem.in](http://www.hindustansystem.in)



# CHARGING STATION SOLUTION FOR TRANSPORT & FLEET

**C**omposite Charging stations are especially designed to provide public transport vehicles and fleets with fast one stop charging service.

The charging stations are equipped with big charger base, logistics, intelligent controls, back-end support and operations management, surveillance systems to cater a most efficient and safe one stop charging solution for growing public transport system and fleet support.

The charging station is consist of split or integrated charging system (charger) high / low voltage power distribution, large shades and bay layout, communication system, operations monitoring and management system.

## DESCRIPTIONS

### Charger Models

- AC Charger upto 22 kwp.
- DC Fast Charger upto 120 kwp with GB/T Gun.
- DC Fast Charger upto 1200 kw with CCS-CHAdeMO & AC Combination.

### Power Distribution

Packaged Substation, shade and elevated steel structure shade.

### Communication systems

Combing the charging station access solution, the charging station network connecting the outer network and the inner network uses optical fiber network, cable network connected to the operations management systems of the charging pile via optical router or wireless router.

### CCTV Monitoring & Security System

Cameras, Communication networks, Boom Barrier for authenticated access, Burglar Alarm to prevent theft.

### Operations managements system

Operation, Management and monitoring of charging pile, sharing of big data and IOT.

### Fire fighting

The space between charging station and buildings should comply with the fire safety requirements, entrance and exit design should comply with the evacuation requirements of charging station and buildings should be equipped with fire extinguishers and fire alarm systems.

## SALIENT FEATURES

Petrol Station

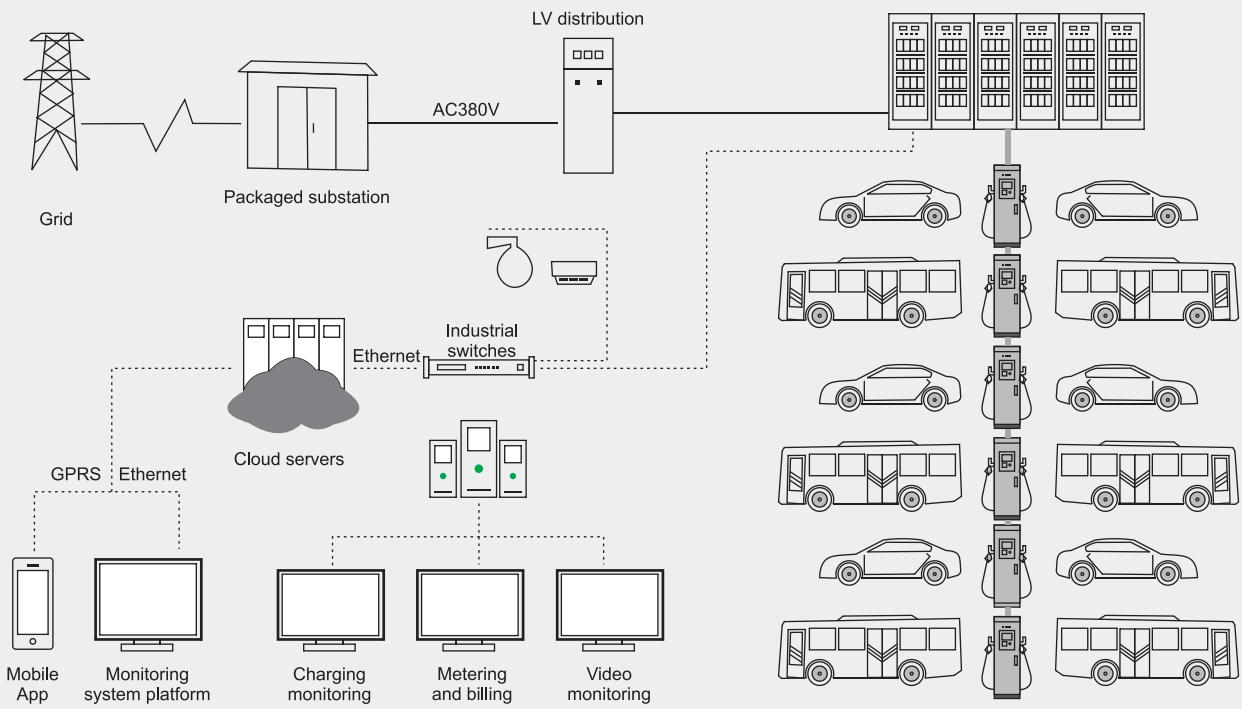
Bus Terminals

Airport Terminal

Fleet Services

Expresed Highway Charging Station

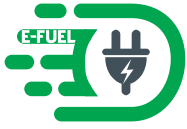




## Composite Charging Solution







# STAND ALONE CHARGER

These Charger able to charge all Electric Vehicles of IEC 60309 (Bharat Ac001), IEC 62196 - 2 (Type 2 AC), CCS - 2, CHAdeMO & GB/T charging standards compliance in AC Charger 230V or 415V and in DC Charger output voltage up to 750/1000 V.

After user identification by simply choosing the charging standard compatible to your vehicle and coupling the charger's output plug to the EV, you will have a fast secured and proven charging process. The battery charging status is displayed and the charging cycle finishes by itself or can be terminated by an user command.

Different output options are available, like the basic single output, dual output or even triple outputs, in a single cabinet or bundled with a wired charging interface kiosk.

## APPLICATIONS

EV Infrastructure and operators

EV fleet (private and public)

EV dealers and service providers

Restaurants

Shopping Centers

Private / Public Parking

Super Market and Shopping Centers

Car-Share, Taxi and Rent a car fleets

Service, Commercial and Distribution fleets

Fleet Services

Long-range EVs charging spots

Bus Depot

Airport Terminal

Highway Side Charging Station

## FEATURES



Cloud platform



QR scan



Ip54



Simultaneous Charging



Remote Access



Service Support



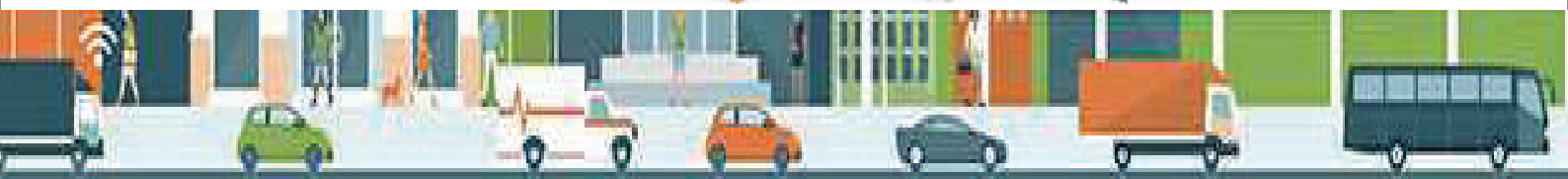
User-Friendly

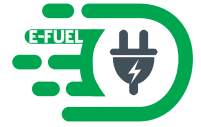


Range DC Outputs



Range AC Outputs



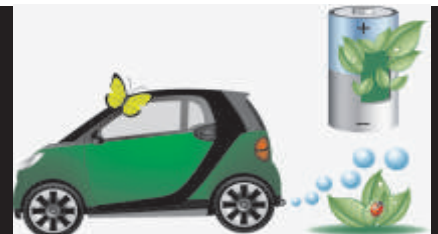
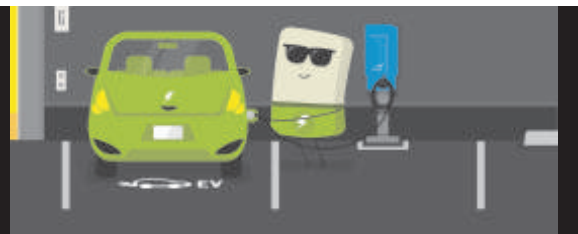


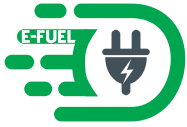
## TECHNICAL SPECIFICATIONS

## Bharat DC001 & GB/T Chargers

Capacity		15 kW	20 kW	50/90 kW
Input Parameters	Input Voltage (Vac)	380 - 480 V		
	Input Frequency	50 Hz		
	THD	≤ 5% of Nominal Voltage		
	Power Factor	≥ 0.99 (Full load)		
	Wires	3 - Phase, 5 - Wire AC ( L1, L2, L3, N and PE)		
Power Output	Output Voltage-DC (Vdc)	40 - 100 vdc	40 - 100 vdc	200 - 750/1000 vdc
	Standard/Connector	GB/T 20234.3		
	Number of Connector/Gun	1	2	1/2
	Efficiency	≥ 94 %		
Protection and Safety	Safety Parameters	Over Voltage, Under Voltage, Surge Voltage, Short Circuit, Over Temperature and Leakage Current		
User Interference and Control functions	Display Screen	7" TFT LCD Touch Screen		
	Languages-Supported	English		
	Push Button	Emergency Stop (Mushroom Red)		
	Charging Option	Grid Responsive metering		
	Visual Indication	Presence of Input Supply, Errors Indicator, State of Charge		
	User Authentication	RFID /QR / AppBased OTP		
	Payment	RDIF Card Wallet or App Wallet/Service		
Communication	Between EV Charger and EV	CAN based Communication as per AIS 138-2		
	Between EV and Central Server	OCPP v 1.6 or above-10/100 Base-T Ethernet (Standard) / Optical GSM Modem (2G/3G/4G) or Wireless		
Mechanical	Protection	IP 54		
	Cooling	Forced Air Collong		
	Charging Cable Length	5 Meter		
	Operating Temperature	- 20° C to 55 ° C		
	Storage Temperature	- 20° C to 60 ° C		
	Humidity (Non-Condensing)	5% to 95%		
	Altitude	upto 2000 mtr		

*Subject to change without prior notice*



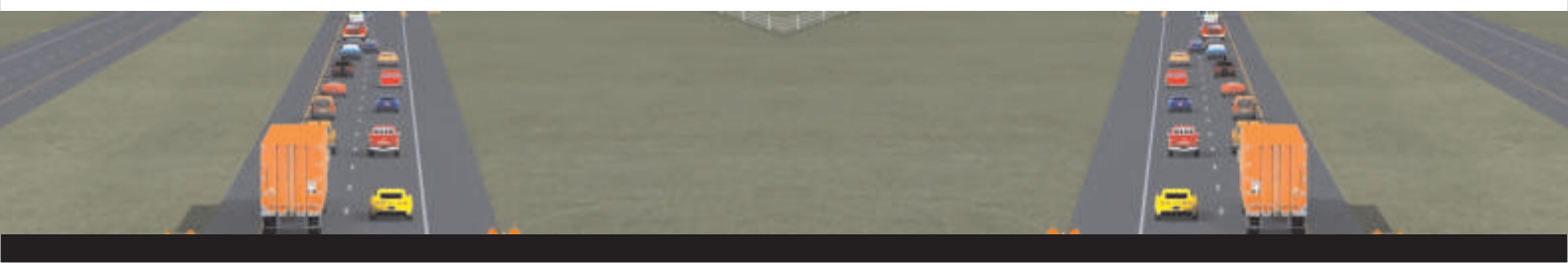


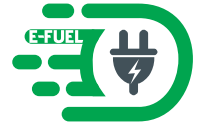
## TECHNICAL SPECIFICATIONS

## CCS-2 & CHAdeMO Chargers

Capacity		50/60 kW	100/120 kW
Input Parameters	Input Voltage (Vac)	380 - 480 V	
	Input Frequency	50 Hz	
	THD	≤ 5% of Nominal Voltage	
	Power Factor	≥ 0.99 (Full load)	
	Wires	3 - Phase, 5 - Wire AC ( L1, L2, L3, N and PE)	
Power Output	Output Voltage - DC (Vdc)	150 - 550 vdc/200 - 750 vdc / 200 - 1000 vdc	
	Standard / Connector	CCS-2	CHAdeMO
	Number of Connector / Gun	1	1
	Charging Standard	CCS-2	CHAdeMO
	Efficiency	≥ 94 %	
Protection and Safety	Safety Parameters	Over Voltage, Under Voltage, Surge Voltage, Short Circuit, Over Temperature and Leakage Current	
User Interference and Control functions	Display Screen	7" TFT LCD Touch Screen	
	Languages-Supported	English	
	Push Button	Emergency Stop (Mushroom Red)	
	Charging Option	Grid Responsive metering.	
	Visual Indication	Presence of Input Supply, Errors Indicator, State of Charge	
	User Authentication	RFID / QR / AppBased OTP	
	Payment	RDIF Card Wallet or App Wallet / Service	
Communication	Between EV Charger and EV	PLC Communication	CAN Communication
	Between EV and Central Server	OCPP v 1.6 or above-10/100 Base-T Ethernet (Standard) / Optical GSM Modem (2G / 3G / 4G) or Wireless	
Mechanical	Protection	IP 54	
	Cooling	Forced Air Collong	
	Charging Cable Length	5 Meter	
	Operating Temperature	- 20° C to 55 ° C	
	Storage Temperature	- 20° C to 60 ° C	
	Humidity (Non-Condensing)	5% to 95%	
	Altitude	upto 2000 mtr	

Subject to change without prior notice





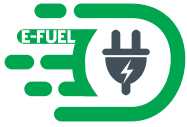
## TECHNICAL SPECIFICATIONS

## 3 in 1 Charger

Capacity		50 kW +20 kW	120 kW +43 kW
Input Parameters	Input Voltage (Vac)	380 - 480 V	
	Input Frequency	50 Hz	
	THD	≤ 5% of Nominal Voltage	
	Power Factor	≥ 0.99 (Full load)	
	Wires	3 - Phase, 5 -Wire AC (L1, L2, L3, N and PE)	
Power Output	DC Output 1	CCS - 2, (50 kW/60 kW)	CCS - 2, 60 kW
	DC Output 2	CHAdeMO, (50 kW/60 kW)	CHAdeMO, 60 kW
	AC Output 3	Type 2, AC 3 Phase, upto 43 kW Max	
	Output Voltage - DC (Vdc)	150 - 550 vdc / 200-750 vdc/ 200 - 1000 vdc	
	Standard / Connector	CCS - 2, IEC 62196 Type-2 and CHAdeMO	
	Number of Connector / Gun	3	
	Charging Standard	PLC(CCS Combo 2)and AC Type-2 as per IEC 61851-1 and CHAdeMO	
	Efficiency	≥ 94 %	
Protection and Safety	Safety Parameters	Over Voltage, Under Voltage, Surge Voltage, Short Circuit, Over Temperature and Leakage Current	
User Interference and Control functions	Display Screen	7" TFT LCD Touch Screen	
	Languages - Supported	English	
	Push Button	Emergency Stop (Mushroom Red)	
	Charging Option	Grid Responsive metering	
	Visual Indication	Presence of Input Supply, Errors Indicator, State of Charge	
	User Authentication	RFID / QR /AppBased OTP	
	Payment	RDIF Card Wallet or App Wallet/Service	
Communication	Between EV Charger and EV	CAN(CHAdeMO), PLC (CCS-2) and Type-2 AC as per IEC 61851-1	
	Between EV and Central Server	OCPP v 1.6 or above - 10/100 Base-T Ethernet (Standard) / Optical GSM Modem (2G/3G/4G) or Wireless	
Mechanical	Protection	IP 54	
	Cooling	Forced Air Collong	
	Charging Cable Length	5 Meter	
	Operating Temperature	- 20° C to 55 ° C	
	Storage Temperature	- 20° C to 60 ° C	
	Humidity (Non-Condensing)	5% to 95%	
	Altitude	upto 2000 mtr	

*Subject to change without prior notice*





## TECHNICAL SPECIFICATIONS

## Bharat AC 001 & Type - 2 Charger

Charger Type		AC Charger			
System Capacity		7.4 kW	22 kW	10 kW	3.3 kW
Input Power	Input Voltage(AC)	230 VAC, 50Hz	380-480 Vac, 50Hz	380-480 Vac, 50Hz	230 VAC, 50Hz
	Wires	3 Wire, L, N, PE	5 Wire, L1, L2, L3, N, PE	5 Wire, L1, L2, L3, N, PE	3 Wire, L, N, PE
Output Power	Number of Outputs	1 Nos.	1 Nos.	3 Nos.	1 Nos.
	Output Connector	IEC 62196 Type-2		IEC 60309	IEC 60309
	Output 1 Rating	230 VAC, max. 32 Amp	415 VAC, max. 32 Amp	Each Outlet 230 VAC, max.16 Amp	230 VAC, max.16 Amp
Environment	Ambient Temperature	20°C to 55°C			
	Storage Temperature	20°C to 60°C			
	Altitude	<2000 Mtr.			
	Humidity	5% TO 95%, non condensing			
User Interface & Control	Display	4.3"/ 7" TFT LCD with Touch			
	Language	English			
	Push Button	Emergency Stop			
	User Authentication	RFID / QR / APP BASED OTP			
	Visual Indication	Using LED			
Protection	Protection	Over Voltage, Under Voltage, Over Current, Short Circuit, Surge Protection, Over Temperature, Ground Fault, Residual Current			
Communication	Charger & Vehicle	TYPE-2 As per IEC 61851-1	As per BEVC-AC0001 Specification		
	Charger & CMS	Protocol: OCPP 1.6 or above, Interface : Ethernet, 2G/3G/4G, Wi-Fi (Optional)			
Mechanical	Ingress Protection	Indoor & Outdoor			
	IP Rating	IK 10 / IP 54			

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