

By Ohmium



## EIPL - DC001

EV - Fast Chargers

- DC Fast Chargers for Electric Two Wheelers/Cars/Rickshaws
- Protocol Compliance with Barath EVSE (based on GB/T 27930)
- Cloud Interface Compliance with OCCP 1.5
- Efficient design occupying minimal floor space
- Metering using certified Energy Meter for compliance with Indian Standards
- Standard GB/T 20237 Type-B Car Connector
- Fully protected against various faults
- RFID based user access system for faster authentication
- GSM based (3G) cloud interface
- Large 7-inch Touch Screen display for a straight forward user experience
- User end mobile application to book charging and do transactions
- Digital Signal Processor (DSP) based system
- Ingress protection category: IP-54

## 1.0 enArka EV Fast Chargers

DC 001 Fast Chargers are 15kW DC Charger systems built as per Barath EVSE protocol to cater to Electric Cars and Electric Rickshaws. Meant to be installed outdoors and provided with the latest software layers for hassle free docking, charging and payments, these chargers are built for the best customer experience.

### The key features of the PCU are:

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## 2.0 Applications

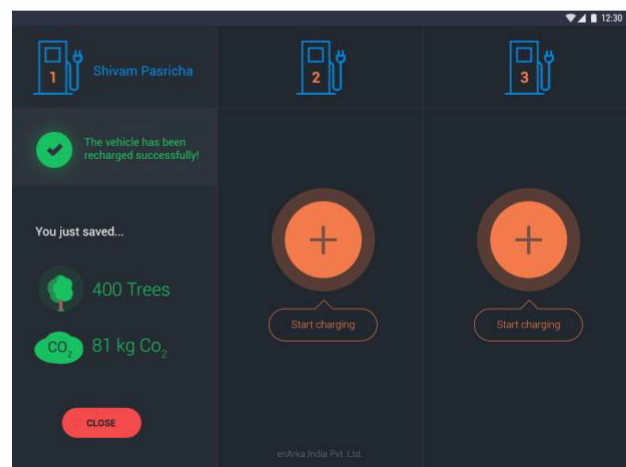
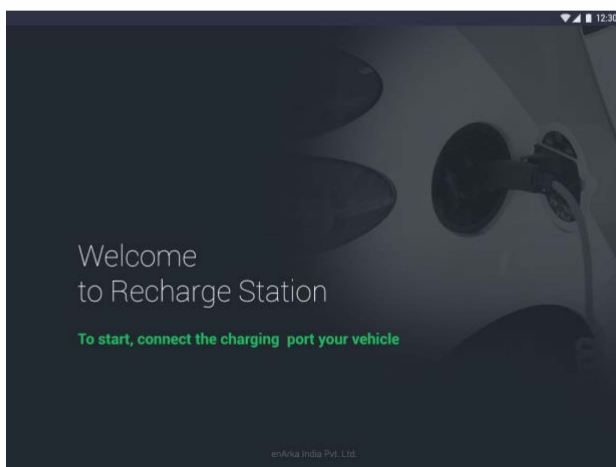
- EV Charging for Electric Cars (15kW) built with Barath EVSE protocol
- Provided with hooks for Charging Electric Rickshaws (3.8kW) in future built with Barath EVSE protocol

## 3.0 Specifications

<b>3.1 Model and Power Rating:</b>	
Charger Model	EIPL-DC001
Power rating	15kW
<b>3.2 Input AC Power:</b>	
AC Input	3 Ph 4 Wire
Input	20kW
<b>3.3 Output 1 (Active):</b>	
Power	15kW
Voltage	0-100V DC
Charging Current	0-200A DC
Termination	GB/T 20237 Type B
<b>3.4 Output 2 (Option)</b>	
Power	3.8kW
Voltage	0-100V DC
Current	0-100A DC
Termination	NA

3.5 Protections:	
Short Circuit	
Overload	
Over Voltage	
Residual Current Protection	
Grid Failure Detection	
Car connector plug-out Detection	
Insulation Resistance Test	
3.6 Mechanical:	
Operating temperature	0°C - 50°C
Storage temperature	-10°C to 60°C
Relative Humidity	Up to 95% non-condensing
Noise level	50-60 dBA
Altitude	< 200 meters above sea level
Weight in kg	170 Kgs
Ingress protection	IP-54
Cooling	Forced Air Cooled
Dimensions (W x D x H) in mm	830 x 500 x 1242
3.7 User Interface	
LED Indicators	Charging/Idle (Green) Fault (Red)
LCD Display Parameters	SOC of Car Max Cell Voltage Charger Voltage Charger Current Time to Charge Charge Time Expired Energy Consumption Bill Amount Car/User Identification System Faults
Switch Control	Charger ON for 15kW (enable Charger) Charger ON for 3.3kW

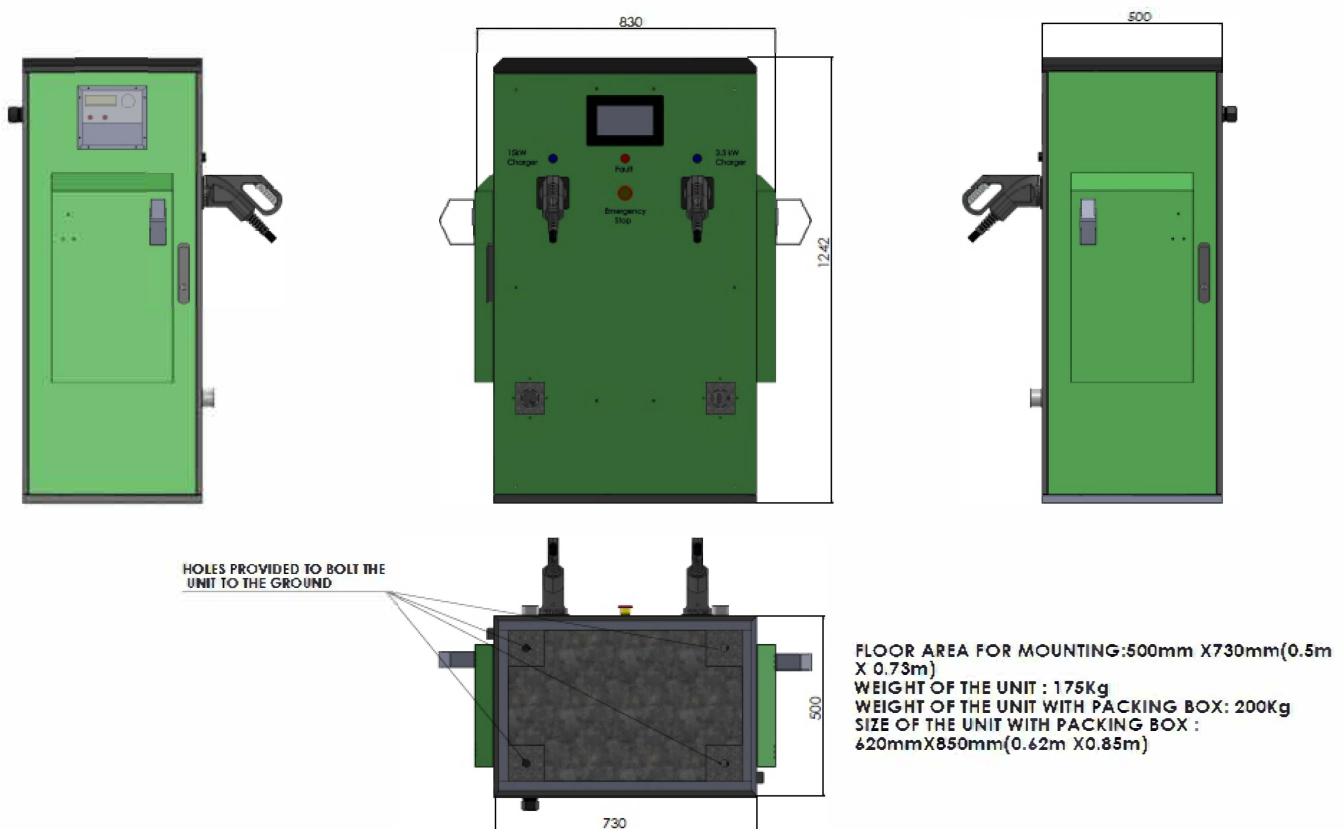
#### 4.0 OCPP 1.5 User Interface



Note: The UI screens can be slightly different in the actual unit. We are continuously improving the UI for a better experience.

- 3G GSM based data monitoring for wider usage.
- Reliable end to end communication abiding to OCCP 1.5 protocol for user-server transactions.
- Minimal but effective screen usage to indicate the important parameters to the user.
- Touch screen interface for a simpler and straight forward front end
- User mobile application to allow super users to book their dock en-route to the charging station.
- Payment using BHIM-UPI
- In addition, the unit also shall have a RFID based authentication system, user needs to authenticate using a smart card and the charger is on its way

## 5.0 Mechanical Dimensions



All Specifications are subject to change without notice