HAVELLS

Instruction Manual

MotrON

EV Charger

7.4 kW - 22 kW

Thank you for choosing Havells Electric Vehicle Charger.

Motron AC EV Chargers deliver safe, efficient, and intelligent charging for electric vehicles across residential, commercial, and public applications. Built to international standards (IEC 61851, IS 17017, AIS-138), the series ensures seamless integration, robust safety, and cloud connectivity.

BOX CONTENTS

Tethered unit

- 1 x Havells EV Charger
- 1 X Mounting Kit
- 1 x Mounting Bracket
- 1 x Instructional manual

PARAMETERS	HAVELLS AC EVSE 7.4 kW	HAVELLS AC EVSE 11 kW & 22 kW
Input Voltage	100 V AC – 300 V AC; 50 Hz	340 V AC – 460 V AC (L-L); 50 Hz
Max. Current Output; Power	32 A; 7.4 kW	16 A; 11 kW
		32 A; 22 kW
User Authentication	Mobile APP, RFID	
Connectivity Options	Wi-Fi, LAN (Optional), 4G/GSM (Optional)	
Communication Protocol	OCPP 1.6 J, upgradable via OTA	
Protections	Over Voltage, Under Voltage	
	Over Current, Under Current	
	Short Circuit, Surge protection, Over temperature protection	
	Emergency Stop	
	Ground Fault, Leakage Faults (30 mA AC + 6 mA DC)	
Emergency Switch	Available (red mushroom push button)	
Status Indication	LED Intuitive Display + RGB LED Indications	
Output Interface (gun type)	AC Type 2 (IEC 62196 - 2)	
Installation Options	Wall Mounted	
	Pedestal Stand	
Max Dimensions (h x w x d)	310 mm x 310 mm x 155 mm	
Cable Storage	Cable wrapped around with Gun holder	
Ruggedness	IP 66, IK 10	
Dynamic Load Balancing	Available with Solar Data Export using DLM Device	
Energy Metering	Class -1 Metering on-board	
Temperature	-25 °C to +55 °C	
Humidity	95%, non-condensing	
Enclosure Material	PC with UV inhibitor	
Compliance Standard/Certification	IEC 61851-1, IS 17017 (ARAI)	

Plug Connector Type:

Type 2/IEC 62196, tethered, complete with 5m charging lead (lead suitable for exterior sun). Charging lead supplied pre-terminated out of the box.

EV Communications / Charging Mode:

Mode 3 / SAE J1772 compliant in accordance with IEC 61851-1 AC charging.

Your Charger has 4 options for charging based upon the authentication:

Online OCPP based authentication: Charger will connect and communicate to CMS server.

RFID based Authentication: RFID Card works as an authentication for start/stop charging.

Plug and charge: Charging will start on its own after successful communication.

Offline Mode: Mobile App will be used to connect and operate EVSE Charger.

In-built Electrical Protection:

- Ground fault protection (integrated DC 6mA RCD and AC 30mA Type A RCD)
- Over current protection
- Under current protection
- Short circuit protection
- Surge protection
- Over voltage protection
- Under voltage protection
- Earth Presence Detection, if the Earth goes missing the charger shows the error

The information displayed on the EVSE are as:

- Connectivity medium and status
- Status of the Charger
- Power Consumption of the charging session
- Fault and Fault type indication

Motron chargers are equipped with an intuitive RGB LED status indicator and a dynamic display, ensuring clear visibility of operating states at a glance.

OPERATION

Controls and indicators

OVERVIEW

1	LED Display	LED display is provided for indication of state, Current, Energy consumed and faults
2	RFID	RFID card scanning area
3	Emergency Button	Emergency button is provided for immediate turning off the operation of charger during hazardous condition
4	Gun Holder	Gun holder is provided to hold the gun when charger is in inoperable state
5	Outgoing Wire	Outgoing wire is to provide connection between charger and vehicle
6	Incoming Wire	Incoming wire is provided to turn on the charger
7	RGB LED	LED is provided to indicate the operating state of the charger.

FAULT TROUBLESHOOTING

State	Description	Display	LED
Fault State	1. UV-Under Voltage	Input AC Voltage Readings and Fault: UV	RGB LED should show blinking in Red (1sec ON - 1 sec OFF), and in sync with RGB Bar on Display
	2. OV-Over Voltage	Input AC Voltage Readings and Fault: UV	
	3. UC-Under Current	Output Current Readings and Fault: UV	
	4. OC-Over Current	Output Current Readings and Fault: UV	
	5. EMS-Emergency Stop	Fault: EMS	
	6. LKG-Leakage Trip	Fault: LKG	
	7. PE-Earth Missing/Fault	Fault: PE	
	8. Any Other Fault		
	9. Network Connection Fault	Network Connection Type Icon and Cloud Connectivity icon will blink	White light blinking

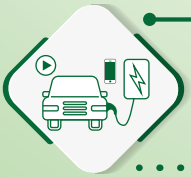
LED STATUS INDICATORS

LED Indiaction	Indicator Effect	Charger State
	Blinking Yellow	Charger is in Booting State
	Solid White Light	Charger is in Available State
	Blinking White Light	Charger is Getting Connected to Server/Network
	Solid Blue Light	Charger is in Preparing State/Plugged In
	Solid Green	Charger has Started Charging
	Solid Red	Charging Stop
	Blinking Red	Fault Occurred on Charger

AUTHENTICATION USING MOBILE APP (ONLINE)

Mobile app and EVSE are connected to internet and charger can be operated remotely

Connect the vehicle with the charger using gun, LED will turn blue colour



Use App to initiate charging session, Charger LED will turn green

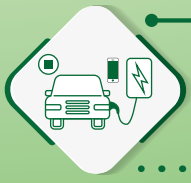
The charging session can be terminated using App or in any Fault Condition, LED will turn red, and charger will get back to Available after some time.

AUTHENTICATION USING MOBILE APP (OFFLINE)

Mobile app is connected to charger locally through EVSE Wi-Fi

Connect the vehicle with the charger using gun, Charger led will turn blue colour

Use App to initiate charging session, Charger LED will turn green



The charging session can be terminated using App or in any Fault Condition, LED will turn red, and charger will get back to Available after some time.

AUTHENTICATION USING RFID

The supply RFID is aleady registered with the charger and the charger can be operated with the RFID

Connect the vehicle with the charger using gun, Charger led will turn blue colour

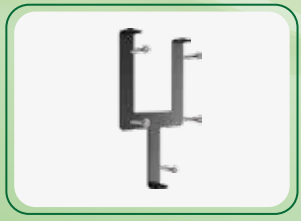
Use RFID and tap near the RFID sensing area to initiate the charging session, charging LED will turn green

PLUG AND PLAY

Connect the vehicle with the charger using gun, Charger led will turn blue colour

The charging will be initiated automatically, the LED will turn green

INSTALLATION



Mount the wall mounting bracket on the wall using the nylon plug and screw

Place the charger on the mounting bracket using M6 screws given in packaging

Place the gun on the gun holder on the facia of the charger

WIRING INSTRUCTION

1-PHASE POWER LINE

3-PHASE POWER LINE

SAFETY

General Safety

- Use certified technician/electrician only for installation, maintenance, or repairs.
- The charger must have a dedicated area for installation with power supply of single phase 240 V / 32 A circuit with proper grounding (PE).
- Do not share the circuit with other appliances; EV charging demand requires a standalone power line.
- Avoid using the charger if any cables or cords are damaged, or if you smell smoke or burning. Disconnect immediately and seek professional service.

Operational Safety

- The charger may become hot during use—this is normal; don't touch the connector tip after prolonged charging.
- Press the Emergency Stop button if required to immediately cut off the output in case of faults.
- Do not attempt internal repairs or tamper with internal parts; this poses a serious safety risk.

Maintenance & Cleaning

- Clean only with a dry or slightly damp cloth—never use detergent, solvents, steam, or pressure water jets.
- Keep the charger environment dry, well ventilated, and away from direct sunlight, humidity, or flammable materials.
- Check grounding and cable connections regularly to ensure no deterioration.

Emergency Measures

- In case of leakage, sparks, smoke, or unusual sound, press Emergency Stop and disconnect power immediately -then contact a certified technician/electrician.
- For electric shock risk, do not touch. Instead, cut off the power supply and call emergency services and a certified technician/electrician.

Disposal

In compliance with Government of India Directive regarding waste electrical and electronic equipment (WEEE) and its implementation in national legislation, used electrical devices must be disposed of separately from general waste and recycled in an environmentally responsible way. Please return your used device to your distributor or contact your local authorities for information on authorised collection and recycling services. Failure to follow this directive may harm the environment.

Copyright

Test Certificate

Certified Type-2 EVSE has been tested in accordance with IS 17017 (ARAI) & IEC 61951, and all Routine test have been carried out as under:

S.No.	TEST	STATUS
1.	Insulation Resistance	OK
2.	Dielectric Withstand Voltage	OK
3.	Residual Current Tripping Test	OK
4.	Functional Verification	OK
5.	Communication Protocol	OK
6.	Ingress Protection Test	OK

Synchronized Product Barcode

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