



USER MANUAL



Electrical Vehicle Charging Connection Statement

INTRODUCTION

Under the implementation of His Majesty Sultan Haitham bin Tariq's directives which have charted an ambitious course to achieve carbon neutrality (net zero target) by 2050, and in commitment to realizing Oman Vision 2040, efforts are being made to reduce greenhouse gas emissions, preserve the environment, and expand the green spaces in the Sultanate. Given that the transportation sector is crucial for development and contributes significantly to this energy transition, using electric vehicles becomes an ideal way to help fulfill the Sultanate's commitment to carbon neutrality. The Authority for Public Services Regulation has issued Decision No. 15/2023 to regulate the activity of electric vehicle charging. The regulations governing the activity of electric vehicle charging include the necessary procedures for establishing and installing public and private electric vehicle charging points. Furthermore, the regulations clarify the violations and penalties in case of any individual's non-compliance with the provisions of these regulations.

Nama Electricity Distribution Company provides the necessary services and facilities to deliver its services reliably and, in a manner, consistent with the health and safety of its customers. Accordingly, customers are able to install electric vehicle charging points in accordance with the regulations and the technical requirements guide for electric vehicle charging issued by the Authority for Public Services Regulation.



TYPE OF ELECTRICAL CHARGERS

To contribute to the organization of the electric vehicle sector and its associated technologies, and with reference to the Regulation of Electric Vehicle Charging Activity No. 15/2023, Nama Electricity Distribution Company oversees the process of installation and operation of electric chargers. Electric chargers are defined as integrated electrical devices responsible for supplying electric power to electric vehicles to recharge their batteries, maintain them, and protect them from overvoltage and overcurrent. Each charger has specific characteristics depending on the type of battery used, in terms of the required voltage and current. There are various types of chargers available in the market, internationally classified into four categories.

MODE 1

- Directly connected to household outlets and takes a long time to charge vehicles, up to 20 hours.
- Unsafe to used.
- Not approved by the Authority of Public Services Regulation.

MODE 2

- Most electric charging stations fall under this type.
- Much faster than Type 1 chargers.
- Comes with standard socket-outlet plug
- Provides protection against electric shock according to applicable standards.
- Suitable for home connections.

MODE 3

- Used for fixed stations on roads and designated areas for charging electric vehicles.
- Allows control over the vehicle's charging power and provides protection against electric shock.
- Can be applied to both single-phase and three-phase charging devices.
- Can be used for both private and public electric charging point .

MODE 4

- The fastest charging type as it operates on direct current.
- Has a special plug different from other types to handle high current and deliver power more quickly.
- Can charge more than one electric vehicle at a time.
- Equipped with personal and vehicle protection devices, smart control devices, and electric shock protection

GENERAL REGULATIONS

- No person is allowed to establish or install a private or public electric charging point without obtaining approval from the licensed electricity distributor and providing all required data and details.
- Anyone who owns or operates a private or public electric charging point must comply with the regulatory and technical requirements set by the authority and relevant entities.
- When establishing and installing a private or public electric charging point, the technical requirements approved by the licensed electricity distributor must be adhered to, and the installation must be carried out by a contractor approved by the licensee.
- The public electric charging point shall be connected to a separate meter.
- The licensed electricity distributor may, if necessary, request the owner of the private or public electric charging point to amend the electricity connection agreement or enter into a separate connection agreement.
- The property owner is responsible for the installation and operation of a private electric charging point. If the property is rented, the tenant must obtain written consent from the property owner before installing or operating the private charging point. In all cases, the property owner remains responsible for the tenant's obligations if the tenant's account information is not updated in the licensed electricity distributor's system.
- The owner of the private electric charging point bears the costs of connecting electricity to the meter associated with the charger to measure the electric vehicle's charging consumption and the costs of its installation or undertakes to provide the licensed electricity distributor with the needed data when required.
- The owner of the private electric charging point is prohibited from allowing others to use their private charging point for commercial purposes.
- The owner of the private or public electric charging point must carry out necessary maintenance and repairs according to the manufacturer's instructions and Nama Electricity Distribution Company



FEES AND TARIFFS:



- Connection Fees: Connection fees for electric charging points apply similarly to the connection fees for electricity supply to properties, according to the subscriber's consumption category, following NEDC Connection Statement, Only if it requires an upgrade.
- Private Charging Point Consumption: The consumption at private electric charging points is subject to the tariff specified in the approved tariff schedule for electricity connection and supply, as amended, and according to the subscriber's consumption category.
- Public Charging Point Consumption: The consumption at public electric charging points is subject to the cost-reflective tariff schedule, as amended, without adhering to the minimum electricity consumption.

CONNECTION REQUIREMENTS AND PROCEDURES

Compliance with the following is required:

- Electric vehicle charging activity regulations (15/2023):

<https://apsr.om/pdfs/Regulationsregulatingelectricvehiclechargingactivity.pdf>

- Distribution Code approved by the Authority for Public Services Regulation:

<https://dcrp-oman.com/documents/The%20Distribution%20Code.pdf>

- STANDARD OES-4, Electrical Installation in Buildings Third Edition 3.1:

<https://www.apsr.om/pdfs/oes/OES4ElectricalInstallationsinBuildings.pdf>

- NEDC approved connection statement.

- Manufacturer-approved technical manual.

- Technical Requirements Guidelines for Charging of Electric Vehicles in Oman from the Authority for Public Services Regulation:

<https://apsr.om/pdfs/EV/EVChargingTechnicalRequirementsGuidelines-v1.0.pdf>



REQUIRED DOCUMENTS



- Copy of the ID card / Commercial registration for commercial and industrial accounts.
- Copy of Krooki and proof of Ownership.
- Non-objection letter from the property owner/Contract Agreement/ Lease Agreement.
- Project schematic diagram (SLD).
- Specification of proposed connected equipment (Datasheet, lab certificates for the IEC standards, warranties).
- Environmental specifications (On request).
- Method of Connection & maintenance.
- Any other necessary approvals from the relevant authorities.

APPLICATION PROCEDURE



- Directly contact Nama Electricity Distribution Company's customer service to inquire about the application process via EVcharger@distribution.nama.om.
- The applicant must fill out the **EV CHARGER CONNECTION APPLICATION FORM** and submit it with the required documents for approval.

USEFUL LINKS

- Authority of Public Services Regulation (<https://www.apsr.om/ar/tariffs>)
- Nama Electricity Distribution Company (<https://distribution.nama.om/ar/>)
- Nama Service Portal (<https://namaservices.om/ar/index>)
- Distribution Code Review Panel (<https://www.dcrp-oman.com>)

