

Dubai Electricity and Water Authority (DEWA) as part of EV Green Charger Initiative, encourages the use of environmentally friendly electric vehicles in the emirate in order to reduce carbon emissions and support sustainable modes of transport in Dubai. Several charging stations have been installed at government offices, airports, petrol stations, shopping malls, commercial offices, clinics and hospitals, residential complexes and establishments.

APPLICABILITY

This regulation is applicable to all building types, except villas. Refer to Table 101.07 (2) in Section One - Administration for detailed applicability levels.

IMPLEMENTATION

Design team must provide charging equipment for 30% of the total preferred parking spaces identified in *Regulation 301.02* (which states the number of preferred parking spaces required). Individual electric vehicle parking spaces shall be provided with either a dedicated charging point or a single charging station with multiple vehicles charging options may be provided. To comply with this regulation, it should be ensured that all available electric car parking spaces are able to charge the parked cars, simultaneously.

Provision of charging stations shall accommodate the needs of all type of electrical vehicles. Electrical connectors/plugs/ ports at the charging stations shall comply with all local or international standards.

The following table (Table 301.03 (1)) shows the type of charging stations and approximate time taken for charging.

Table 301.03 (1): Type of Charging Stations

Charging Station Types	Approximate Charging Time Required
Wall Box Charger	2 to 4 Hours
Public Charger	2 to 4 Hours
Fast Charger	20 to 40 Minutes

Referred charging time in Table 301.03 (1) is approximate based on the market standard, actual charging time depends on various factors like charging mechanism of the inbuilt battery systems, size of the battery and speed of different charging points.



Fig 301.03(2): Electric Vehicle Charging Station and Signage