

# FUNCTIONALITY

Agreements regarding the functioning of charging stations, e.g. availability and charging sessions.

| Sub-category       | ID | Subject description                               | Guideline description   | Required; Desired* | Priority**  | Comments |
|--------------------|----|---|---|--------------------|-------------|----------|
| Charging           | F1 | Locking of plugs                                  | The plug must be locked in the outlet from the moment that the user logs in until the moment that they log out.   | Required           | Include     |          |
| Charging           | F2 | Representing the capacity of the charging station | Maximum charging capacity is indicated on the charging station. Additionally, the current capacity (Smart Charging) can be indicated as well. Links to third parties to share this information should also be supported.                            | Required           | Include     |          |
| Status information | F3 | Status changes                                    | The charging station conveys active status changes to the back office system, which are critical to the safety and the continuity of providing high-quality charging services (such as tilt and temperature).                                       | Required           | Include     |          |
| Authentication     | F4 | Ending transaction when connection is unavailable | It must be possible to terminate the current charging transactions locally in the event that the online back office system is not available or cannot be connected to.  | Required           | Include     |          |
| Availability       | F5 | Availability of new charging session              | After the user logs out, the charging point should be available for a new charging session immediately.   | Required           | Include     |          |
| Technology         | F6 | Replace/Upgrade RFID reader                       | The RFID reader needs to be replaced or upgraded for future changes. This will ensure that the most common payment methods are used.  | Desired            | Recommended |          |
| Technology         | F7 | Starting up charging point after loss of power    | After a power failure, no voltage is applied to the sockets until a new charging transaction is started. The ongoing transaction is terminated and the cable is unlocked.   | Desired            | Recommended |          |
| Technology         | F8 | Cancelling a transaction                          | The charging station cancels the transaction if a vehicle has not been connected within a certain amount of time (e.g. 120 seconds) after authentication. This is so that other users do not accidentally plug in during a transaction in progress. | Desired            | Include     |          |

For \* and \*\*: definitions on page 7.

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|-----------------------------|-----|--|---|--------------------|------------|---|
| Providing charging services | F9  | Operation  | The charging stations in the Netherlands deliver certified green energy from renewable energy sources such as solar, wind and biomass.  | Required           | Include    |   |
| Charging session            | F10 | EV driver must be able to determine charging session | The EV driver has the possibility at the start of their charging session to decide not to go ahead with, for example, reduced energy in connection with measures for network congestion, etc. | Desired            | Include    | This should also be taken into account in any pilot projects. |
|                             |     |  |   |                    |            |   |

For \* and \*\*: definitions on page 7.