

STANDARDS AND REQUIREMENTS

Agreements regarding the standards that must be adhered to, e.g. IEC and NEN guidelines.
View the most current versions online.

Sub-category	ID	Subject description	Guideline description	Required; Desired*	Priority**	Comments
Standards	SN1	IEC 61851	IEC 61851 indicates the requirements for alternating current charging station with a conductive connection to an electric vehicle.	Required	Include	
Standards	SN2	IEC 62196	IEC 62196 indicates the requirements for plugs, sockets, vehicle plugs and vehicle sockets for charging electric vehicles using a cable with alternating current to 250 A and direct current to 400 A.	Required	Include	
Standards	SN3	NEN 1010	NEN 1010 indicates the minimum safety requirements that low voltage installations must adhere to.	Required	Include	
Standards	SN4	Security requirements	'EV Charging Systems: Security Requirements' contains the security requirements that charging systems must adhere to.	Required	Include	
Measurement and registration	SN5	Metrology Act	Measurement and registration of energy should take place in accordance with the Metrology Act.	Required	Include	
Working safely	SN6	NEN 3140	NEN 3140:2011 constitutes the Dutch implementation of the European standard EN 50110-1:2005 for low voltage devices, supplemented and adapted to the Dutch situation as prescribed by Occupational Health and Safety legislation.	Required	Include	
Protocols	SN7	OCPI	OCPI is implemented to allow receipt of charge profiles from external parties.	Required	Include	
Protocols	SN8	OCPP	The communication protocol between the charging station and the back office is OCPP.	Required	Include	
Protocols	SN9	OSCP	To work with cable forecasts from the grid operator, the back office system supports OSCP 1.0.	Required	Include	
Protocols	SN10	Standardised charge protocol	Charging of electric vehicles occurs according to the Mode 3 protocol, in accordance with IEC61851.	Required	Include	
Specifications	SN11	Grid connection specs	The grid connection in the charging station meets the requirements put forth by the grid operator. These can be found on the ElaadNL website.	Required	Include	The information can also be requested from info@elaad.nl .

For * and **: definitions on page 7.