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VERTICA PRO - Factory Configuration

Gdańsk, 2025-06-12

This document presents the available configuration options for the Enelion VERTICA PRO charging stations before production. Each charging module is individually configured and tested to meet customer requirements and expected use cases.

Factory configuration allows Enelion to optimize the station's operation, ensure compliance with electrical infrastructure, and simplify installation and commissioning.

Improper configuration can lead to communication issues, failed authorizations, incorrect metering, or system malfunctions.

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1. Charging Network Addressing

Each module must have a unique address in the CAN-based charging network.

Setup Description	Addressing Example
Single-module station	1/1
Two-module station	1/2, 2/2
Multi-post CAN chain	1/4, 2/4, 3/4, 4/4
Invalid configuration	Duplicated addresses

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2. Authorization Modes

Mode	Description
Any RFID tag	Any RFID tag starts charging
Plug and charge (FreeCharge)	Charging starts automatically after plugging in

Plug and charge with lock	As above, plus socket locking if applicable
Authorized RFID	Charging only after reading an authorized RFID tag
OCPP	Authorization handled via the operator's backend through OCPP 1.6J

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3. RFID Group Management (Authorized RFID only)

Parameter	Description
RFID Groups per installation	Default: 1
Modules per group	As defined by the customer
Cards per group	Default: 1 card per module

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4. Charging Power Options

Power Level	Description	Electrical Spec
22 kW	Fast charging	3 phases, 32 A
11 kW	Standard charging	3 phases, 16 A
7.4 kW	Single-phase fast	1 phase, 32 A
3.7 kW	Single-phase standard	1 phase, 16 A
Custom	6–32 A, adjustable	1 A increments

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5. Dynamic Load Balancing (DLB)

Setting	Description
Enabled	Default current limit: 500 A
Disabled	Load balancing off
Custom	Custom thresholds available on request

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6. RCM B (DC-leak detection)

Setting	Description
Enabled	If RCM B is installed in the module
Disabled	If the module does not contain an RCM B sensor

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7. Custom Status Bar Logo

Setting	Description
Enabled	Upload `.png`, `.eps`, `.svg` before production
Disabled	Default Enelion branding used on status bar

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8. Default Language

Up to 12 languages can be preinstalled. Language selection must be defined before production.

Available languages:
English (default), Polish, Portuguese, German, French, Romanian, Italian, Dutch, Danish, Lithuanian, Slovenian, Czech

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9. LED Color Scheme

Mode	Description
Default	Blue LED when the charger is idle
Swapped	Green LED when the charger is idle

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10. System-Level Configuration Parameters

Key	Description	Example Value
`EEG metering point`	Defines metering type (e.g., standalone)	Power eq. without CAN

`Lock System`	Lock control system	Enelion
`GSM Start`	GSM startup behavior	Enabled / Disabled
`SIM APN`	LTE Access Point Name	Not set
`CPMS Address`	OCPP backend server URL	wss://backend.url
`OCPP StationID`	Unique identifier for backend	PL-ENELION-0001
`AuthorizationCacheEnable`	Cache authorized RFID cards	True / False
`HeartbeatInterval`	Interval between heartbeats (in seconds)	43200
`MeterValueSampleInterval`	Energy sampling interval (in seconds)	180
`Hotspot SSID`	Local hotspot SSID	EnelionCharger123
`Hotspot Password`	Hotspot password	Not set
`Extended Config`	Extended configuration	True / False

Final Notes

- Configuration must be clearly communicated when placing the order.
- Some parameters can only be set during production and cannot be changed remotely.
- Improper installation or configuration can void the warranty on the product.