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Monitoring en control
Elektrotechnische materialen
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CPS SC-120 Central Rectifier Unit

Central power and monitoring unit for use in Cathodic Protection of concrete using impressed current.

General

The CPS SC-120 Central Rectifier Unit is a central power and data communication unit that provides the connected versions of the CPS SZ Zone Power Supply with 24 VDC power and data communication. This enables remote reading and control of the connected power supplies for the individual CP zones.

Housed in a glass fiber reinforced polycarbonate enclosure are a transformer, modem, and specially developed interface for DOP communication (Data-Over-Power). The power supply has a maximum output power of 120 W and has connections for two 24 VDC lines that can be extended and branched as needed. The zone power supplies are connected to the power lines without the need for separate data cables.

CPS SC-120 Central Rectifier Unit is used as a central power supply for a Cathodic Protection system consisting of multiple zones. Data communication is via LTE-M to an IoT platform where the measurement results are processed, visualized and commands for the zones can be sent. The possibilities for data communication fully comply with EN-ISO 12696:2022.

Key Features

- ⊕ High-efficiency power system
- ⊕ Stable accurate output voltage (low noise/ripple)
- ⊕ Complies with EN-ISO 12696:2022
- ⊕ Communication with IoT platform
- ⊕ Compact housing
- ⊕ Plug-in connection



Adresgegevens

Cathodic Protection Supplies BV
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Contactgegevens

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Administratief

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KvK nr.: 53450833



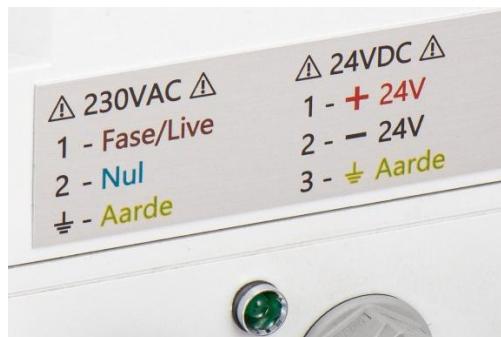
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- ⊕ Communication with the zone power supplies on-site using an RS422 protocol via Data-over-Power. This communication is sent over the 24V power line and can be extended and branched to multiple CPS SZ Zone Power Supply as needed.
- ⊕ Communication to the IoT platform via LTE-M where in the platform the results of all measurements are stored, processed and retrievable. From the platform, tasks can be scheduled both automatically and manually.



Applications

CPS SC-120 Central Rectifier Unit in combination with the CPS SZ Zone Power Supply is suitable for all indoor and outdoor exposed reinforced concrete structures that are subject to corrosion of the reinforcement due to mixed in or penetrated chlorides and/or carbonation. Examples of applications are:

- ⊕ Gallery and balcony slabs
- ⊕ Consoles and cantilever beams
- ⊕ Columns and beams
- ⊕ Bridge decks
- ⊕ Parking garages

Properties

Dimensions	
Housing without connectors (lxbxh)	21 x 18 x 16,5 cm
Input	
AC range	85 ~ 264 VAC
Design current requirement	130 W
Output	
Maximum output power	120 W
Output voltage	24 VDC
Operational range	-20 °C to 65 °C without derating
Connections	
Input	single 3 x 1.5 mm ² QPD connector
Output	dual 3 x 2.5 mm ² QPD connector 24 VDC positive, negative, and ground

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Design Criteria

CPS SC-120 Central Rectifier Unit can be used for corrosion prevention, corrosion control, or cathodic protection applications. The anode design varies according to project specifications. For assistance in system design, please contact CPS.

Installation Instructions

Installation

Mount power supply within intended and permitted range. Start up the CP system under execution of start-up tests as described in EN-ISO 12696:2022.

All work related to mounting, checking, and starting up to be carried out by a CP specialist of at least level 3 in accordance with EN-ISO 15257:2017 (or equivalent).

Use

Remote Controle

The CPS SC-120 Central Rectifier Unit provides stable and sustainable 120 W power at 24 VDC output voltage. Data communication with connected zone power supplies is via the IoT platform.

Data Line and Communication

Units with a modem are fully tested upon delivery and connected to the IoT platform, making them immediately operational. Monthly charges for the data line and platform start from the first full month after delivery.

The effectiveness of our systems is based on years of practical experience and laboratory research. We guarantee that the quality of the work produced according to our systems meets the properties that CPS has promised, provided that our instructions have been strictly followed, and the work has been carried out according to the requirements of good craftsmanship. We disclaim any liability if the final result is adversely affected by factors and circumstances over which we have no control. The purchaser must use the means normally available to him to check whether the delivered products are suitable for the intended application. Upon the release of a new edition, this technical documentation sheet loses its validity.

All orders are accepted under our current sales and delivery conditions.

Would you like to know more about this product or application?

Call: +31 10 8208704 or send an email to: info@cp-supplies.nl

