



# CS 160/240 Charging Satellite

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### INTRODUCTION

Normet SmartDrive CS 160/240 Charging Satellite offers flexible power distribution precisely where it is needed most. Designed as a supply interface for use with Normet supply cabinets or charging cabinets, the CS 160/240 features a durable and robust design specifically tailored for harsh conditions.

#### Key features

- CS 160: Charging up to 160 kW power and 200 A current
- CS 240: Charging up to 240 kW power and 300 A current
- · Robust and easy to use user interface with e-stop
- Up to 80 m installation distance from Charging cabinet or Supply cabinet
- Led bar indicator for State of Charge (SOC)

#### **GENERAL ELECTRIC SPECIFICATION**

Voltage Max. 1000 VDC Standby power 25 W

Max. charging current:

- 200 A
- o 300 A

#### **ELECTRICAL PROTECTIONS**

Charging connector pin temperature monitoring

#### **ENVIRONMENTAL SPECIFICATION**

Operating temperature

-30°C to +50°C

-40 to +60°C

IP65, IK10

Derating high temperatures:

Charging cable pin temperature limits charging current. For other limiting variables, see the Charging cabinet or Supply cabinet datasheet.

Storage temperature
Enclosure class

Humidity <95% relative humidity

#### **GENERAL**

Housing material Stainless steel

DC connection standard CCS type 2 IEC 62196-3

Connector specification

DC cable length

- 5 m
- > 7 m

#### Connectivity (via Supply cabinet or Charging cabinet)

Connectivity 3G/4G/LTE, WiFi, OCPP 1.6/2.0

# Electrical connections (between Charging satellite and Supply cabinet)

DC power cable per vehicle connector terminals 2 x 95 mm<sup>2</sup>

per pole

Control cable 24 VDC

Control bus cable

#### Compliance to standards

IEC 61851-1

IEC 61851-23

IEC 61851-21-2

#### **ACCESSORIES**

- o Installation stand
- o Cable management system

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## **SERVICES**

#### **NORMET SERVICES**

Normet is committed to servicing its customers all over the world. We provide service from a single machine to an entire fleet. The Normet service offering consists of many different products from delivery of parts and training to fleet performance agreements.

More information check normet.com:

https://www.normet.com/en/products-and-services

For any questions about Normet Services contact local Normet.

https://www.normet.com/en/contact/

#### **SPARE PARTS**

As a leading global Original Equipment Manufacturer, we are committed to providing a complete solution to your spare parts needs. All of Normet's spare parts are manufactured to the highest possible standards to help maintain the safety and profitability of your projects. Our spare parts improve efficiency and total cost of ownership throughout your operations.

Start a carefree journey with Normet equipment by having the right selection of parts available from the beginning.

Spare part recommendation / Start-up Spare Part package: Available for the first 2000h\*: includes periodical service parts, most common wearing parts and other recommended parts. (\*Recommendations are based on average hours that can vary depending on worksite conditions.)

Underground, every part is critical!

More information check https://www.normet.com

#### **SERVICE AGREEMENTS**

Service agreements are always customized to meet our customer needs, consisting of various Normet service products. The service solution is created together with the customer and the level of an agreement can vary with different support agreements (including e.g. parts, periodical maintenance, oncall services, and audits) up to guaranteed fleet availability or process performance (including e.g. parts, all maintenance activities, operator trainings and process audits).

Note that we can provide Digital solutions with connected equipment.

More information check normet.com.

#### **TRAININGS**

Training services can be tailored to your individual needs and range from equipment service training to process application training.

We offer a sustainable training path from the beginning of your operation to the execution stage of your project.

More information check normet.com.

#### COMMISSIONING

Equipment commissioning concerns **equipment familiarization**. This is included as part of Normet vehicle delivery. Safety introduction and operating basics for Normet Equipment. Review of Normet user and spare parts manuals. Hands-on equipment safety device operational training. Ensure product quality and customer satisfaction during handover.

Commissioning includes machinery handover to customers and safety operating principles without technical insights or process application training.

#### **EXTENDED COMMISSIONING**

We offer an extended training package on top of standard commissioning. Normet provides extended commissioning services that offer basic insights into maintenance manuals, periodical and daily maintenance, as well as modern operating perspectives to maximize handling efficiency. Safety-oriented training ensures reliable operations for breaker boom systems. This cost-effective solution covers the essential aspects of equipment operation, safety, and maintenance schedules.

To ensure continuous and maximized safe operations with your new equipment and to expand your knowledge scale of operations, this option is the most suitable and recommended option for extending your new equipment training. This cost-effective solution covers the essential aspects of equipment operation, safety, and maintenance schedules.

#### **UPGRADES AND MODIFICATIONS**

We build our machines to last. We also understand that your needs on the ground can change - and reacting to that change makes a big difference in your productivity. Normet Upgrades & Modifications provide you with access to product improvements that meet your evolving requirements and let you stay one step ahead of the curve.

Contact your local Normet office for Upgrade offering to your fleet.

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## START-UP AND COMMISSIONING

1. OPERATOR TRAINING			
	Start-up training	Commissioning	
1.1 Classroom training			
General introduction and operation of charger	Basic	No classroom training in-	
Safety instructions	Basic	cluded in commissioning	
Use of manuals	Basic		
Technical introduction of equipment	Basic		
Hands-on service and pre-operation checks	Basic		
1.2 Practical training			
Pre-operation checks	Basic	Introduction	
Safety instructions	Basic	Introduction	
Preparing the charger for specific operation conditions	Basic	Not covered	
Operation	Basic	Introduction	
Charger daily checks	Basic	Introduction	
Troubleshooting	Basic	Not covered	
2. MAINTENANCE AND REPAIR TRAINING			
General operation of charger	Basic	Introduction	
Symbols of drawings and codes	Basic	Not covered	
Control systems	Basic	Introduction	
Function of main components (depending on charger)	Basic	Introduction	
Locations of components in the machine	Basic	Not covered	
Periodical maintenance	Basic	Introduction	
Troubleshooting	Basic	Not covered	
Use of manuals and safety instructions	Basic	Introduction	
Installation assistance	Basic	Not covered	

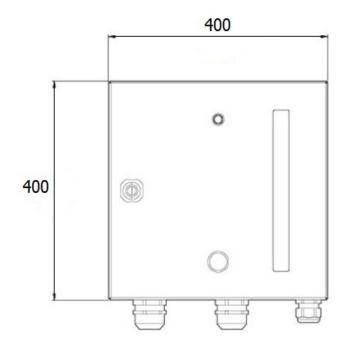
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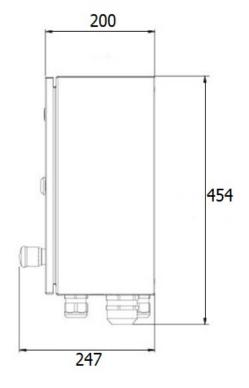


## **DIMENSIONS**

Height	400 mm	Depth with stop button	247 mm
Height with cable fastener	454 mm	Weight with 5 m charging cable	23.5 kg
Width	400 mm	Weight with 7 m charging cable	25.5 kg
Depth	200 mm		

#### **DIMENSIONAL DRAWINGS**

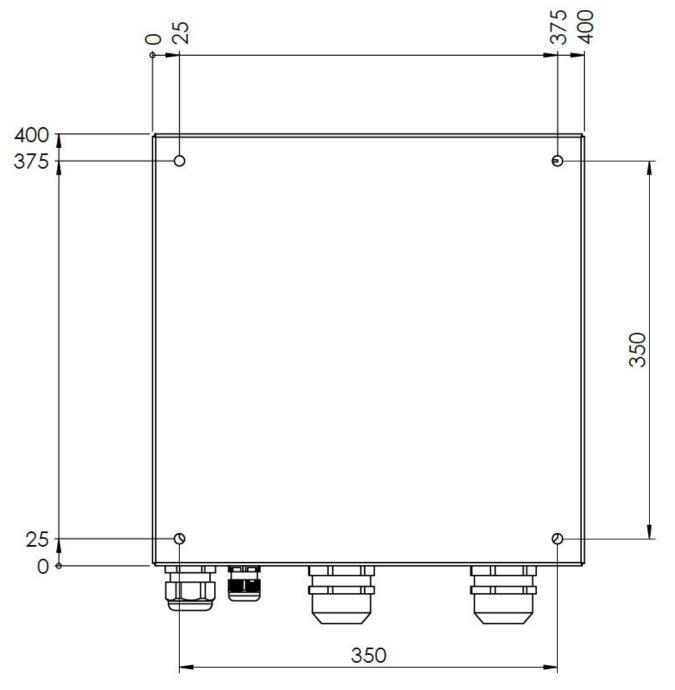




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#### **DIMENSIONAL DRAWINGS**



Backside mounting holes

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