

# Open Charge Point Protocol

ACTIVATION GUIDE ENGLISH V2.0

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### Overview

The OCPP is a standard and open protocol for communication between Charge Points and a Central System where a Charge Point Operator can, among others, monitor the status of the Charge Points, authorize who is allowed to charge or perform remote actions like to stop an ongoing transaction.



### **Terms and conventions**

Acronym	Model
СР	The Charge Point is the physical system where an electric vehicle can be charged.
СРО	The Charge Point Operator manages a set of CPs using a Central System
CS	The Central System that manages Charge Points and has the information for authorizing users for using its Charge Points
OCPP	Open Charge Point Protocol
VPN	"Virtual Private Network"

### References

[Open Charge Point Protocol 1.6 edition 2]



### **Part Number Activation**

OCPP is only available in:

• Chargers with OCPP selected in the "version" section of the part number.

Charger	Model	Cable	EVC	Power	Version	Custom	Revision
Pulsar Plus NA	PUP1	U - 25 ft	1 - Type 1	5 - 9.6 kW	C- Hardwired + OCPP	002-Matte Black	-
				6 - 11.5 kW	G - NEMA 14-50P +OCPP		

#### You can know more about OCPP at:

https://support.wallbox.com/na/knowledge-base/datasheets-pulsar-plus/

### **Charge Point Setup**

To achieve the OCPP connection between the Charge Point and the Central System, the Charge Point administrator shall set up the network connection and the OCPP parameters using myWallbox App or Portal.

Wallbox is NOT responsible for any unexpected performance of the Central System if it has failed to successfully pass the Factory Acceptance Test between both parties.

If the Central System has failed to pass the Factory Acceptance Test, please contact: sales@wallbox.com

#### myWallbox Account

You can find all the instructions to use myWallbox App or Portal at: <u>https://support.wallbox.com/na/knowledge-base/mywallbox-overview-na/</u>

### **Network Connection**

To establish a connection between the Charge Point and the Central System it is necessary to connect the Charge Point to the network using the Wi-Fi connection.

You can find all the instructions at : <u>https://support.wallbox.com/na/knowledge-base/connecting-your-charger-to-your-wi-fi-network/</u>

### **OCPP** Parameters setup

### Wallbox App



To complete the OCPP setup using myWallbox App perform the following steps:

1. Log in to the myWallbox App.

The Wallbox app is available on PlayStore and AppStore.







- 2. Add the charger to your account.
- **3.** Access to the charger's screen.

○ ○	( • °
WELCOME JOHN	
I ALREADY HAVE A CHARGER	COUNTRY UNITED STATES
	UNITED SIATES
CHARGE IN PARKING	Contact service@wallbox.com if you are not able to find your serial number or UID.





**4.** Select the required charger. Review the manuals, if required.

5. Enter the charger status screen and click the configuration 🖸 button.



Note: If the charger is not compatible with OCPP, the OCPP button will not be displayed.

7. Set the OCPP parameters and press the "SAVE" button

- Enable: On / Off switch
- URL: Central System connection endpoint (required field)
- Charge Point Identity: Charge point ID (required field)
- Accept the terms and conditions (required field)

Note: The charger will automatically reboot and new configuration will be applied



To complete the OCPP setup using myWallbox portal perform the following steps:

1. Log in to the myWallbox portal and access the charger's page

2. Select the required charger and ensure it's connected to the network.

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**3.** Enter the charger status page and click the OCPP tab.

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Note: If the charger is not compatible with OCPP, the OCPP tab will not be displayed.

4. Set the OCPP parameters and press the "SAVE" button  $% \left( \mathcal{A}^{(1)}_{\mathcal{A}}\right) =\left( \mathcal{A}^{(1)}_{\mathcal{A}}\right) \left( \mathcal{A}^$ 

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- Enable: On / Off
- URL: Central System connection endpoint (required field)
- Charge Point Identity: Charge point ID (required field)
- Accept the terms and conditions (required field)

Note: The charger will automatically reboot and new configuration will be applied



### **OCPP Connection Status**

The status of the OCPP connection between the charger and the Central System is shown in myWallbox App and Portal as:



The OCPP is activated and the charger is connecting to the Central System



The charger is connected through OCPP to the Central System



The Charge Point can not establish the connection with the Central System

### myWallbox App



OCPP Connecting

OCPP Connected



OCPP Connection Error

#### **Chargers'** List

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#### **Chargers' Details**

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# 1. OCPP Connected







# 2. OCPP Connecting



### **OCPP Functionalities**

Pulsar Plus NA implements the beneath OCPP 1.6j Core profile functions as described in the "OCPP 1.6 Edition 2" specification:

- Core profile
- Local Authorization managment
- Remote firmware update

- Remote trigger
- Smart charging

### How to use the charger



Action	Pulsar Plus
Charge point will be locked while available	
Show your authorized RFID card to the RFID reader or unlock the charger with the CPO $\ensuremath{App}$	Арр
Once authorized, the charger will unlock	
Connect your EV charging cable to the Charge Point	N/A
Connect your EV cable to the EV	
Charge process will start	
Use the same RFID card, or the CPO App, to stop the charging process	
Disconnect your EV cable from the Charge Point and from the EV	

Notes:

- Other procedures could be defined by your Charge Point Operator.
- Mifare UID shall be introduced in Central System's authorization whitelist as little-endian and no separators.

### **OCPP and myWallbox**

To keep aligned with the OCPP specification, some Wallbox functionalities are not available when OCPP is enabled. Non-conflicting functionalities will always remain available at myWallbox App and Portal.

myWallbox cloud will continue gathering all the information regarding the Charge Point status and usage for a faster and better after sales service as well as managing the remote updates of the Charge Point.

Wallbox functionalities not available when OCPP is enabled:

Some of the myWallbox functionalities will still be available when OCPP is activated. They can be performed by the Charge Point Operator (CPO) though the myWallbox App or Portal:

- Charger status monitoring
- Anonymous charging sessions
- Set Power Sharing
- Set the current limit
- Update the charger software
- Restart (charger reboot)
- Restore (factory conditions)
- Set charging schedules
- Set TN/TT Ground system

Note: These features will not be available if the network connection is in a VPN.

Note: Wallbox functionalities will remain available according to your myWallbox plan: "Basic", "Standard" and "Business".



## myWallbox App

**1.** The charger status screens for OCPP not activated and activated



2. Advanced options setup



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# OCPP and myWallbox functionalities Compatibility myWallbox Portal

1. The charger status screens for OCPP not activated and activated

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Find frequently asked questions at: <u>https://support.wallbox.com/article-tags/faqs/</u>

# wallboy

### Connection to myWallbox in a VPN scenario

In order to keep all myWallbox features available in a VPN scenario, including among others remote diagnostics and remote software updates, the CPO SHALL allow charger connection to myWallbox Cloud by opening:

- Domains: \*.wall-box.com
- Ports: 443 and 80
- Access: Outbound

### Troubleshooting

#### OCPP connection status remains in "Connecting"

Check network connection status and OCPP parameters setup

### Service

Need more assistance? Contact Wallbox customer service:

(888) 787-5780 support.wallbox.com/na

www.wallbox.com

service.na@wallbox.com

