

AmpCharge EV Charger 7kW Installation Manual Australia

This document is used for the installation of AmpCharge EV Charger 7kW models.

Please note:

A licensed electrician is required to install this device and register it on <u>https://evos.app/login</u> to complete installation. If you have any questions, please call **13 14 04** 9am to 6pm, Monday to Friday Sydney Time.



AmpCharge EV Charger 7kW -Installation Manual Australia

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Warnings

Saftety Warning

- Upstream protection must be installed for safe operation.
- AmpCharge EV Charger 7kW installation must be performed by a licensed electrician.
- The AmpCharge EV Charger 7kW is designed to only be connected to a dedicated AC supply.
- The AmpCharge EV Charger 7kW requires only Type A RCD + MCB upstream protection.
- The use of adapters or conversion adapters is not permitted with AmpCharge EV Charger 7kW.
- The use of cord extensions is not permitted with AmpCharge EV Charger 7kW.
- AmpCharge EV Charger 7kW must be installed according to local regulations (AS/NZS 3000:2018 Electrical Installations (Australian Wiring Rules).
- Upstream power must be isolated before insertion or removal of the charging cable from the charging unit (only relevant if cable is being swapped out of unit).
- Service / replacement must be performed by a licensed electrician.

Installation Warning

- The AmpCharge EV Charger 7kW must be installed by a licensed electrician.
- Please ensure there are no other safety concerns in and around the area of work prior to commencing installation.

Product Specification

Communication	
Charging Mode	3
Protocol	OCPP 1.6j
Wireless	Wi-Fi: 2.4GHz IEEE 802.11.b/g/n Bluetooth: 4.1
Compliance	
Certification	CE Certified, AS/NZS 3820:2009, AS/NZ 4417.2:2012
Protection Class	1
Standards	IEC 61851-1, IEC 61851-21-2 EU RoHS Directive Compliant
Connector	
Charging Cable length	5m
Charging Connector Type	Туре 2 (IEC 62196 Туре 2)
Electrical	
Charging Power	7.4kW (1P max)
Connection Method	Permanently connected
Ground	PE Cable
Input power supply characteristics	EV supply equipment connected to AC supply network
Input voltage (L-N)	110 to 230 V AC
Maximum Input Current	32 Amps
Nominal AC Frequency	50 Hz / 60 Hz
Output power supply characteristics	AC EV supply equipment
Protection	6mA DC RCD - Only Type A RCD + MCB upstream protection required
Environmental	
Access Condition	Unrestricted Access
Altitude	Up to 2000M
Impact Protection	IK08
Ingress Protection	IP65
Operating temperature	-30 °C to 50 °C
Relative humidity	Max. 95% non-condensing
Logistics	
Storage temperature	From -40°C to 85°C
Packing weight	3.3kg
Packing Dimensions (L x W x H)	380x380x100mm
Physical	
Colour	White/Blue fasciaBlack connector and enclosure
Dimensions (W circular x H)	320mm x 83mm
НМІ	LED
Mounting Height	Minimum 900mm from lowest edge to floor level
Mounting Type	Wall mount
Weight (including cable)	3.3kg

Installation Preparation

- Ensure that the charging cable is positioned so it will not be stepped or tripped on, driven over or subjected to damage or stress.
- Be careful not to damage the circuit boards or components during installation.
- Use a cable sheath or protective conduit to cover the supply cables. The colour black is recommended.

Installation Checklist

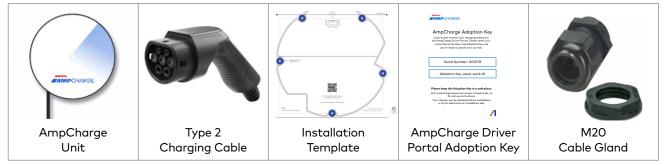
INSTALLATION WARNING: This must be completed by a licensed electrician.

Please use this checklist to ensure the charging unit is installed safely.

ltem	Yes	Comment
Charging unit and charging cable are not damaged		
Charging unit mounted position is easy to access		
Charging unit mounted position is protected from vehicle damage		
Charging unit's lower edge above 900mm above ground level		
Upstream type A RCD installed		
Upstream C curve MCB installed		
Charging unit base is mounted securely to surface		
Circuit amperage limit has been set		

In the Box

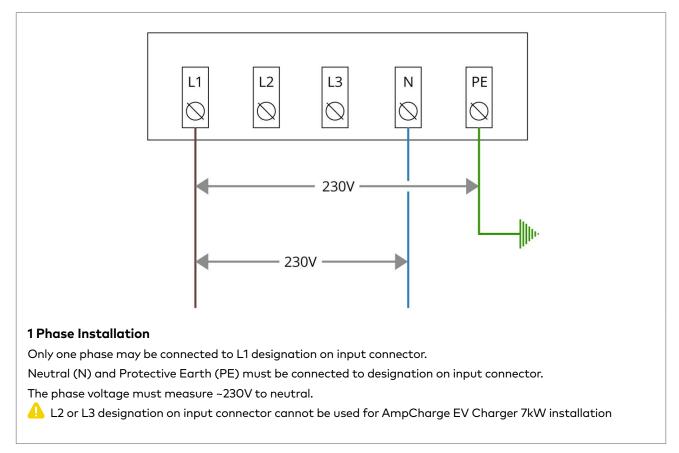
AmpCharge EV Charger 7kW charging unit with attached type 2 charging cable, installation template, adoption key and M2O cable gland. Note: Input power cable is not included and will be provided by the installing licensed electrician.



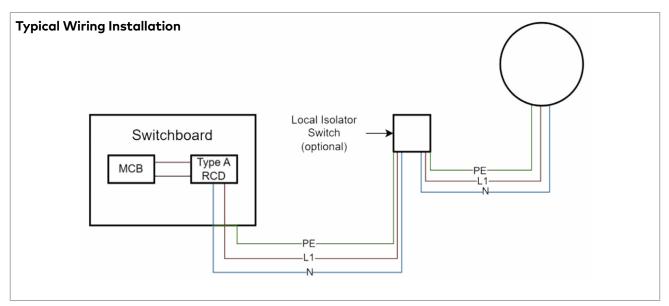
IP 65 – Ingress protection

Ingress protection for the AmpCharge EV Charger 7kW must be maintained on installation of the input power cable. Use the correct cable gland for the size of supply cable, hole size is M20. Either use the cable gland supplied or an equivalent sized conduit plain-to-screwed adaptor with lock ring.

Supply Wiring



Typical Installation example



Installation

Tools Required

1 x 3mm Post Hex Security Bit
1 x Power Drill
1 x M5 Drill Bit
1 x Phillips Head Screw Bit
1 x ½" Drive Rachet
1 x 90mm Extension Bit
1 x Standard Electrical Test Equipment1 x Level
1 x Mobile Phone or Laptop with Wi-Fi
1 x test adaptor such as a Metrel A1532, Fluke FEV300, or HT EV-TEST100 is required in order to complete mandatory

Installation Location

test requirements of AS/NZS 3000

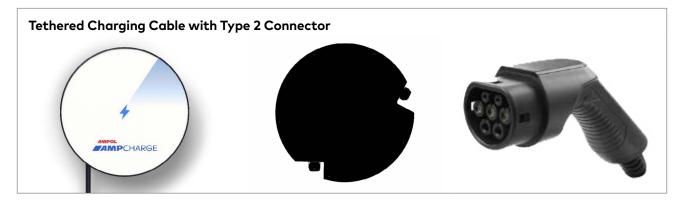
Before installation, check the preferred installation location has these features

- 1. Installation surface must be flat to remain compliant with IP65 Rating
- 2. Easy access by driver.
- 3. Easy stowage of charging cord (prevent wheel crush damage).
- 4. Easy to plug in vehicle without straining cable.
- 5. Charger is protected from vehicle damage.
- 6. Station lower edge mounting height is minimum 900mm from floor level.
- 7. No obstructions to left and right of the charger. Please keep in mind cable management (wrap around unit or cable hook required and space needed to ensure ease of use).

Maximise Wi-Fi signal reception:

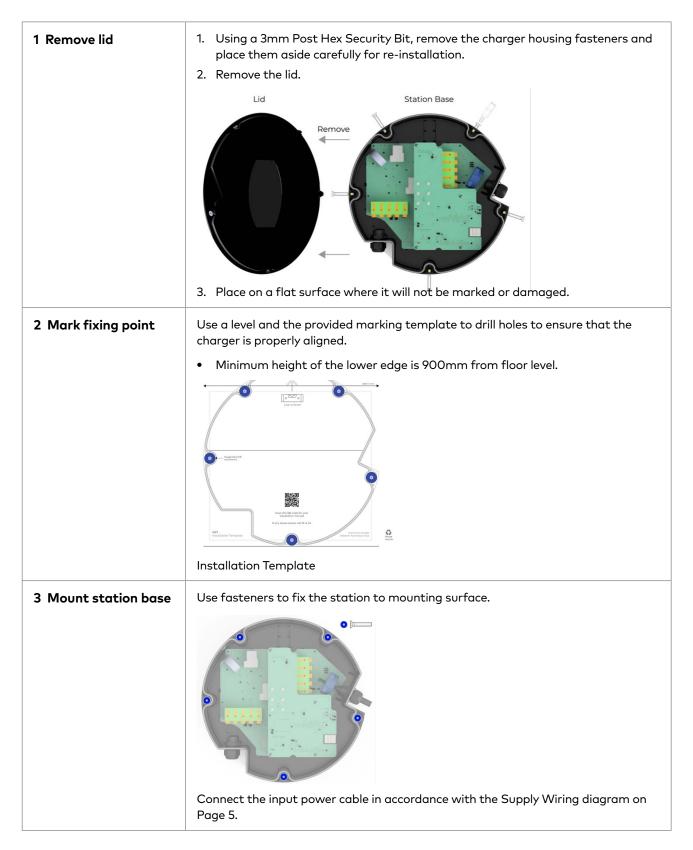
Avoid installing AmpCharge EV Charger 7kW on opposite sides of concrete, masonry, metal studs, and other physical obstructions that could impede Wi-Fi signal reception.

Component Guide



Installation Steps

Please check off the items on the checklist located on the last page of this document.





4 Re-install lid	Use the charger housing fasteners and re-install the lid. Torque rating for lid M5 security screws 0.5Nm.
	Lid Station Base
	Remove
	Ensure the gasket is fitting correctly. and press firmly on the cover at each fastener location to ensure alignment of the fixing screw with the embedded female thread whilst installing each screw.
5 Register and configure (mandatory)	<list-item> 1. Connect to the EVOS Installation Portal by using this URL: https://evos.app/login. 2. If you have an installer account, please sign in, otherwise register an account Sign In Enter your username and password, then click "Sign In" to access the EVOS App. Register Click "Register" to create a login for the EVOS App as an Installer. Reset Password Click "Forgot your password?" to reset your password Sign in Sign in</list-item>
	Installation Manual C2

Electrical Licence

At the install screen, please enter:

- 1. Your electrical licence number.
- 2. Your electrical licence type.
- 3. Your electrical licence expiration date.
- 4. Which country is this licence is for.
- 5. Which state or territory this licence is for.

	Operation of several			
	Commission charger After installation, commission the charger using this form to	connect it to the internet and unlock all its cana	allities such	
	as faster charging. To finalise commissioning, enter the det and the charger.	ails of your electrical license (required for charge	installation)	
	Electrical licenses	Re	Add	
	License Number License Type Co	untry State Expiry Date	Delete	
	You have no electrical licenses			
	Add a license to continue		Next →	
	Installatio	on Manual 🔄		
•				
	nmission Charger			
At t	he install screen, please er	iter:		
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	The address where the sta			
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- Back

Installation Manual

	The successful install screen will be displayed on configuration. If unsuccessful, please call 13 14 04 (between hours of 9am –6pm, Mon-Fri AEDT)				
	Commission charger After installation, commission the charger using this form to connect it to the internet and unlock all its capabilities, such as faster charging. To finalise commissioning, enter the details of your electrical license (required for charger installation) and the charger.				
	Charger comissioned successfully. Serial number 000001 Commission another charger Installation Manual				
6 Electrical Tests	 Inspect and verify installation meets local requirements before placing into service. AS/NZS 3000 requires a number of mandatory tests to be conducted upon installation. These must be conducted. 				
7 Power ON	Enable the upstream power.				
8 Test Charge	AS/NZS 3000 requires a number of mandatory tests to be conducted upon installation as per the testing equipment required, please ensure you can use a specialised RCD test instrument capable of 6mA smooth DC testing is required for testing of the built-in RDC-DD function. Recommended to use a thermal camera to verify there are no hot spots on the input connector.				
9 Remove plastic film	Remove plastic film from the lid.				
10 Charge Light	To indicate your job is complete, the charger will be flashing white and cyan to indicate that it is ready to charge and also looking for a Wi-Fi connection.				
	If the charger's Circuit Amperage Limit is set below 32A, it is advisable to connect the charger to Wi-Fi to ensure that this setting is uploaded to the device.				
	The next steps including Wi-Fi setup are for the homeowner to complete.				
	Please note that this charger will charge at full capacity without a Wi-Fi connection.				

Please provide the customer with the Completed Certificate of Compliance for this Installation

Installation complete.

Home Owners Guide -AmpCharge EV Charger 7kW

(This section is for the Homeowner to follow)

Charging a Vehicle

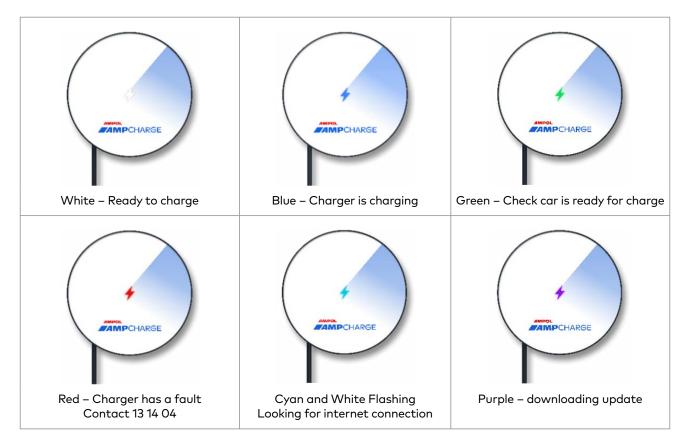
- 1. Check AmpCharge EV Charger 7kW status LED is White or White and Cyan (if charger is not connected to internet) both modes will allow you to charge your vehicle.
- 2. Follow vehicle preparation instructions for starting a charging session (unlock inlet / open door / remove inlet cover).
- 3. Remove the protective cap from the charging cable.
- 4. Check the charging cable for damage or contamination.
- 5. Insert the Type 2 charging cable into the vehicle inlet. Check the charging cable is fully inserted.
- 6. The vehicle inlet will lock the charging cable.
- 7. Start of charging session
- 8. When the charging session ends, follow the vehicle instructions to unlock the vehicle inlet.
- 9. Remove the charging from the vehicle inlet.

Never use force to remove the charging cable.

- 10. Loop the cable once anti-clockwise around the shield and replace the connector protective cap immediately.
- 11. Check AmpCharge EV Charger 7kW status LED is White (if connected to Wi-Fi) or White and Cyan (if not connected to Wi-Fi)
- 12. Follow vehicle instructions after charging session (install covers / close door).

Charger Status Information

The LEDs on the AmpCharge EV Charger 7kW convey the state of the station as listed below.



Customer Connecting Wi-Fi Setup

Connect your charger to your home Wi-Fi network to access the AmpCharge Driver Portal and to allow firmware updates to be installed remotely as needed.

- 1 Connect to your home Wi-Fi using your mobile device:
 - a. Go to your mobile device settings.
 - b. Select Wi-Fi.
 - c. From the network list, select your Charger Serial Number (this will be a six-digit number located on the side of the charger).

Note: It may take a moment to appear on the network list. Repeat this step if your serial number does not appear after a few minutes.

d. Once selected, follow the below screen shots to connect.

Note: Repeat this step if you find the connection drops off or incorrect credentials were entered or if you need to change Wi-Fi credentials in the future.

2 A pop-up will appear with the following screens and steps - please follow the prompts to successfully connect.

Note: Please ensure your network name does not contain spaces or special characters.

Also, if the charger has been powered on for over 10 minutes without the step above being complete, please turn off and on again to restart the Wi-Fi signalling.

Select letwork	• 2	• 3	1	Setup Connection	• 3	1	2	Connec	
Select your	r Wi-Fi Network		WI-FI Netv	Wi-Fi Network		Next Step When you pr will close.	s ess 'Connect' below, this p	oortal	
🔶 Your-wif	i-network			Fi Password					
🤶 MyWifi_2	2G		6543210	0		Once connec	ow the charger is connec ted successfully, your cha white light. You are then	rger will	
🔶 HelloTec	:h Wifi_5G		Set Cr	redentials Go Back		start chargin	g your vehicle! nt continues, please re-en		
🤶 Another	Wifi					Wi-Fi credent	ials and try again. For add se call 13 14 04.	litional	
🔶 HelloTec	:h Wifi					Connect	Go Back		
🔶 Another	Wifi_4G								

Setup Completed – Enjoy using your new AmpCharge Home EV Charger.

Maintenance of your AmpCharge Home EV Charger

- 1 Regular Cleaning: Please do not hose or spray with water. Ensure to clean the charger's connectors and the surrounding area regularly by using a soft, dry cloth or a mild cleaning solution to remove any grime or debris.
- 2 Check for Physical Damage: Inspect the charging cable and device for signs of damage.
- 3 Monitor Charging Speed: Keep an eye on your EV's charging speed.

If you notice any damage, decrease in charging speed or any issues with connections, please turn off at the isolator and contact 13 14 04.