AmpCharge EV Charger Flash 7kW User Manual Australia

Model: StarCharge Artemis AC Charger (AC0070EN02600)

Please note:

A licensed electrician is required to install this device.
If you have any questions, please call **13 14 04**
9am to 6pm, Monday to Friday Sydney Time.

AMPOL AMPCHARGE

Legal Notice

The information presented in this guide is subject to change without prior notice.

The technical specifications indicated here do not constitute a contractual obligation.

In case of any doubt regarding a subject described or if you discover an error in this manual, please contact us.

1. Table of Contents

2. Safety

2.1 General safety

Before charging your Electric Vehicle (EV), please carefully read and familiarise yourself with all the safety requirements and usage instructions in this chapter as failure to do so may result in safety hazards or device failure.

- Installation of the Electric Vehicle Supply Equipment (EVSE) must be performed by a licensed electrician only and in accordance with the provided installation manual. Do not attempt to install, service or un-install the EVSE by yourself unless you are a licensed electrician.
- Do not use the EVSE:
  - Near explosives or flammable substances.
  - In or near water.
  - If it is visibly damaged.
- Do not clean the EVSE with running water or a pressure washer.
- Do not change or modify the EVSE.
- Do not wrap the cables around the EVSE while charging.
- Do not put the connector on the ground. Put it in its holder after charging.
- Only perform activities that are described in this manual, and that you are qualified to do.
- Make sure the EVSE is used in the environmental conditions that are specified for it as indicated in Chapter 4 – Working environment.
- Avoid storing flammable liquids or substances near or above the installed EVSE
- Where your EVSE is installed in a private garage, carport or in close proximity of a residential dwelling, Ampol recommends the installation of a mains powered smoke alarm or heat alarm in the immediate EV charging area. Such device should be interconnected with any existing smoke alarm(s).

2.2 Safety symbols

Symbols	Meanings
	**Electric hazard:** This symbol indicates that there is a hazard of electric shock. Users should not attempt to tamper with or open any part of the EVSE under any circumstances.
	**Caution:** This symbol indicates that there is a hazard that could damage the product. Users should not attempt to tamper with or open any part of the EVSE under any circumstances.
	**Garbage disposal:** This symbol indicates that the electrical and electronic equipment and their accessories should be disposed of separately from household waste. They can be reused, recycled, or disposed of in a safe and environmentally friendly way.
	**Earthed:** Must be connected to the building's earthing system during installation to ensure correct operation of various electrical protection features. Once the ground fails or there is no grounding, the EVSE will report fault and stop charging.
	**Regulatory Compliance Mark (RCM):** This symbol indicates that the electrical and electronic equipment complies with two independent schemes. • Electrical Equipment Safety System (EESS) • Australian Communications and Media authority (ACMA) labelling requirements

Table 2.2 Safety symbols

3. Product overview

3.1 Nameplate

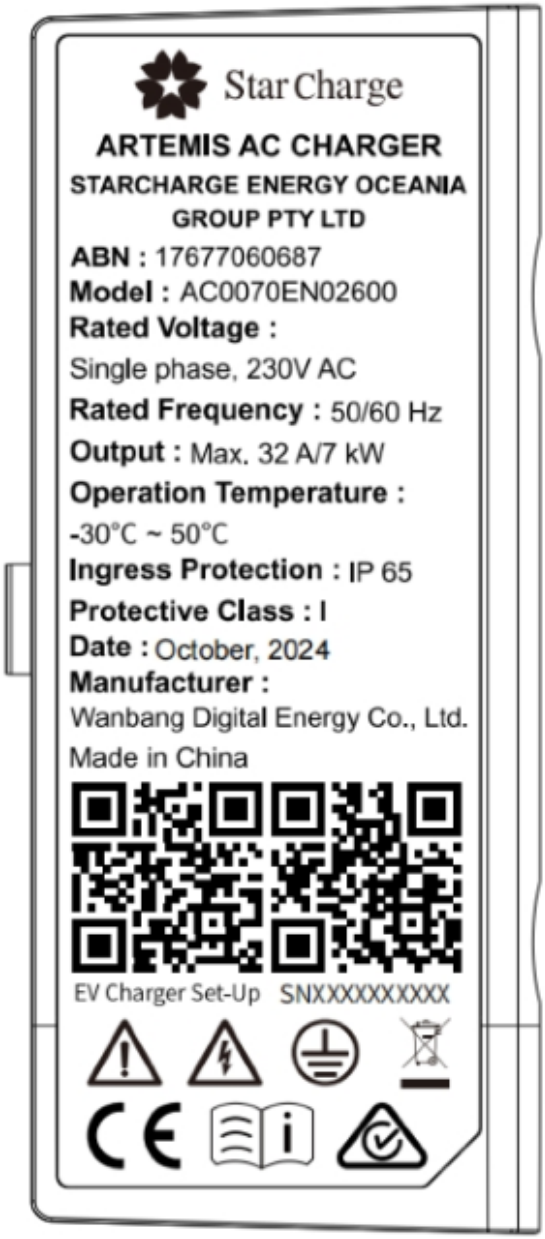


Figure 3-1 Nameplate

3.2 External view

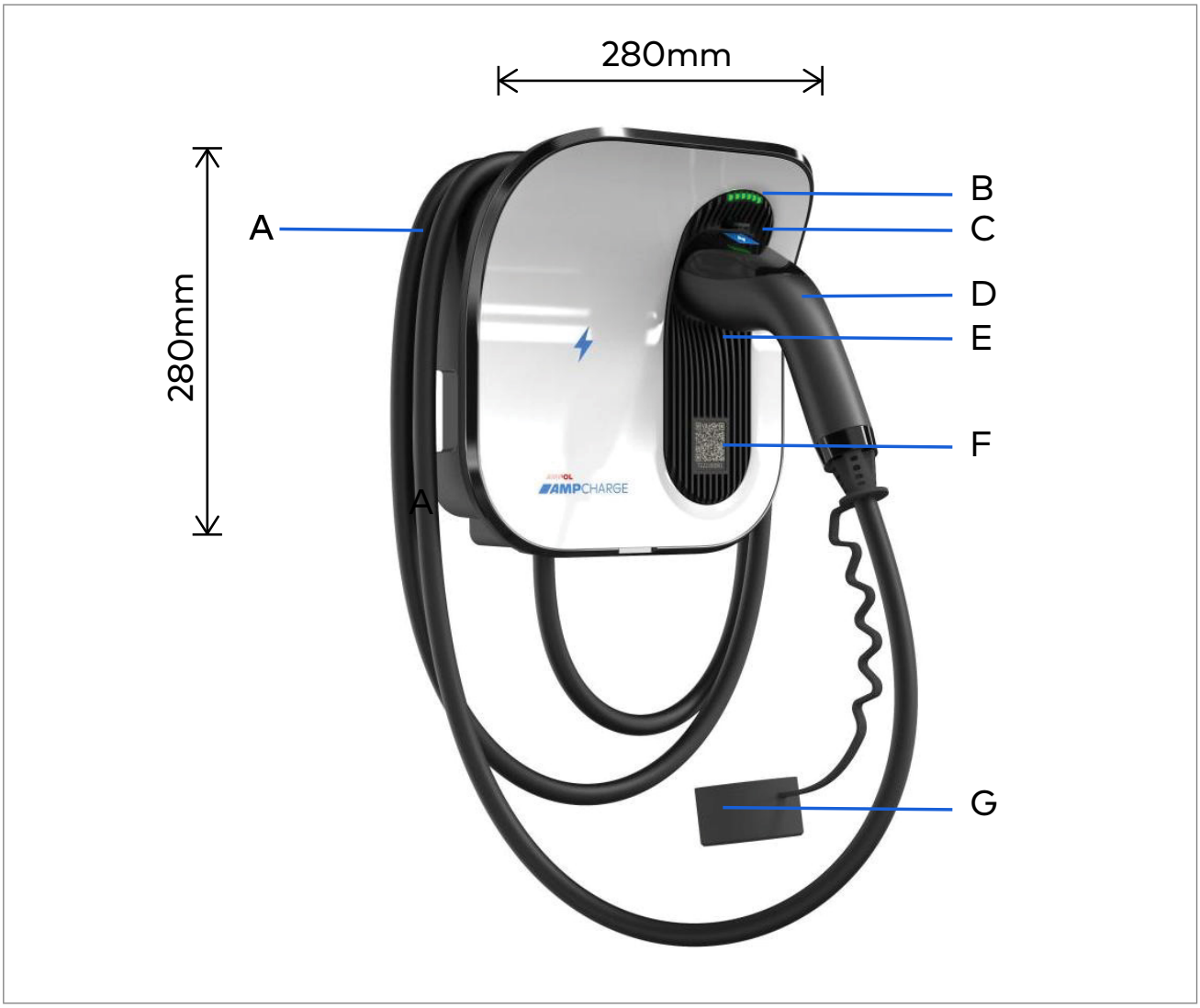


Figure 3-2 EVSE Components

A Cable winding groove

B LED status indicator

C Charging connector unlocking button

D Charging connector

E Charging connector holder

F Charger ID code

G Connector cover

NOTE: When the EVSE is not in use, the charging cable should be rolled up and put back into the cable winding through position [A] as indicated in figure 3-2, and the charging connector should be inserted into the designated position [E] for safe storage.

3.3 Charging connector type

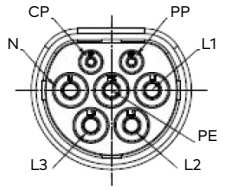
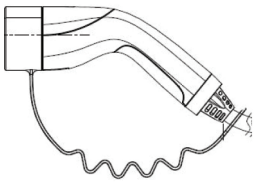
 Contacts Assignment 	The EVSE comes with a Type 2 connector tethered to the charger. The length of the charging cable outside of this EVSE is 5m.

Table 3-3 Charging connector type

3.4 Status of the LED indicator

Lighting effect	Meaning	
	Steady white	Start-up – Wait for the charger standby
	Green flashing 1 time per 5s	EVSE in standby
	Steady blue	Charging connector connected
	Blue breathing	Charging
	Blue flashing 2 times per 1s	The EV/EVSE charging suspended
	Steady red/flashing	Fault

Table 3-4 Status of the LED indicator

NOTE: If the red indicator is on or flashing, cycle the power to the charger by turning it off at the lockable isolator (see image 3-4a) for 30 seconds and then turning it back on. If the problem persists, please contact the Ampol Customer Support team (13 14 04) for help.

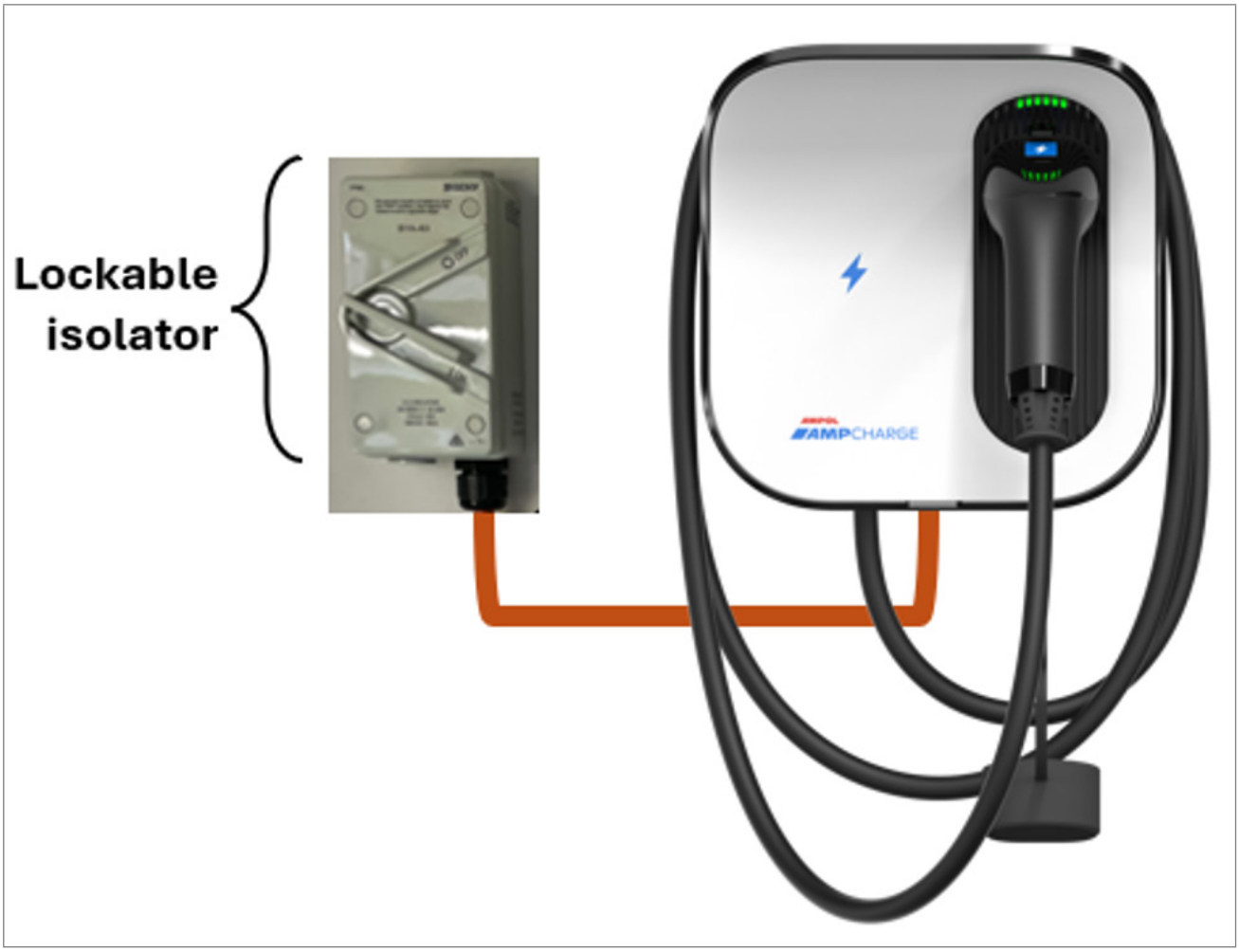


Image 3-4a – Lockable isolator sample

4. Working environment

Operating temperature	-30°C~ +50°C
Relative humidity	5%~95% (No condensation)
Altitude	≤3000 m

5. Instructions of use

5.1 Prerequisites

Before starting, make sure you have the following ready:

- Make sure you know all the general safety and usage instructions in Chapter 2.
- Make sure the EVSE does not look damaged.
- Make sure your EV is in good condition and can be charged.
- Park your EV in the designated area and make sure the charging cable is long enough.

IMPORTANT NOTE: Your Charger is capable of up to 7kW rate of charging; however some site locations may not have sufficient spare electrical supply capacity. If this is the case, then the Installer will be required to reduce or limit the maximum output charging rate of your Charger accordingly. This is necessary to avoid electrical overloading, and to avoid loss of electrical supply (power outage) to the site.

5.2 Charging process

(1) ACTIVATION:

- **Free charge**

Follow your vehicle manufacturer's instructions for preparing and starting a charging session (if any). Once your vehicle is ready to be charged, ensure the preconditions for charging under section 5.2(2) are met and follow the instructions under section 5.2.1 to start and stop your charging session.

(2) CHARGING

- **Preconditions**

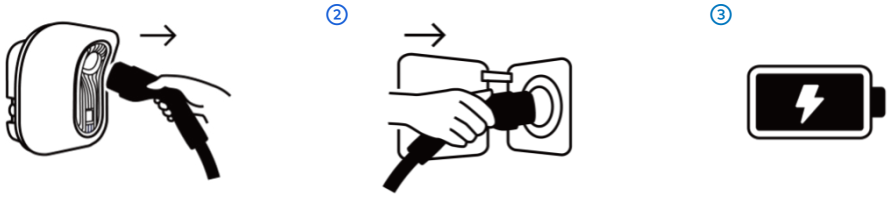
① The charging connector is plugged into the vehicle.

② The EVSE is ready and in standby state (the LED indicator is flashing green 1 time per 5 seconds).

5.2.1 Free charging

- **Start charging**

① ② ③



1 Depress the release lever at top of the holder to release, then pull out the charging connector from the EVSE.

2 Connect the charging connector to the EV. The charging connector is correctly connected once the LED indicator on the EVSE is blue solid on.

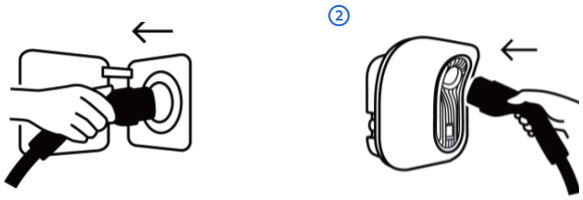
3 The EVSE will start charging process when the LED indicator is on blue breathing (gradually on and off).

IMPORTANT: Your EV charger will be set to the required input current (AC) level to ensure the EV charger will not exceed the household capacity or any relevant Service and Installation Rules (SiRs). If your home has limited or insufficient electrical capacity, your installer will reduce the charging speed of your EV charger to the extent necessary to guarantee a safe installation.

NOTE: To provide the full up to 7kW power, your home must have 32 amps of available capacity at 230VAC.

- **Stop charging**

① ②



1 When desired, follow your EV manufacturer's instructions to cease charging and then disconnect the charging connector from the EVSE.

2 Wrap the charging cable around the enclosure and return the charging connector to the holder.

6. Maintenance

6.1 Appearance check

Requirements: Ensure supply power has been turned off by switching the lockable isolator (image3-4a) to the "off" position.

Check Item	Content and specification	Method
Appearance Inspection	The EVSE is intact and complete.	Visually
	All components of the equipment are free from stains, scratches, deformations or cracks.	Visually
	The charging cable/socket is complete without damage.	Visually
	No water or dust in the charging connector.	Visually
	The insulation cap of the charging connector is complete.	Visually

If you notice any damage, abnormalities, decrease in charging speed or any issues with connections as a result of the above inspections, please turn off your EVSE at the lockable isolator (see image 3-4a) and contact Ampol on 13 14 04 for support.

NOTE: Your EVSE relies on an upstream 30mA Residual Current Device ('Safety Switch') and also includes a sensitive 6mA DC Residual Current Device ('RDC-DD'). Both of these devices should be tested to confirm correct functionality at least annually. Please contact Ampol on 13 14 04 to enquire regarding a visit by an authorised technician.

6.2 Cleaning

Pre-requisite: Ensure supply power has been turned off by switching the lockable isolator (see image 3-4a) to the "off" position.

Frequency: Every year

It is recommended that the external enclosure of the EVSE, charge cable and charge connector is regularly cleaned with a clean cloth dampened with water only. In addition, there should be no plants growing on or around the EVSE.

- Do not clean the product with high-pressure water
- Do not clean the product using any chemical or corrosive cleansers
- Do not attempt to open any part of the EVSE or clean the inside of the product

7. Terms and Definitions

Acronym	Definition
EV	Electric Vehicle
EVSE	Electric Vehicle Supply Equipment
AC	Alternate Current
DC	Direct Current
SiRs	Service and Installation Rules