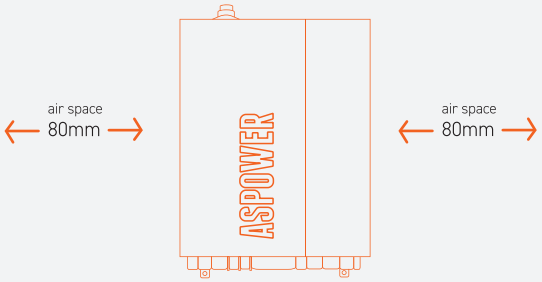
ASPower Install guide

ASPower, a lithium battery-compatible battery management system that operates from 240V AC mains power supply, towing vehicle auxiliary and solar panels to simultaneously power caravan loads and charge the caravan battery. It employs intelligent charging algorithms to ensure optimal and automatic battery health. Automatic battery preservation mode saves remaining battery power until you're ready and able to charge.

1. Location



- Orient the ASPower with the load connection at the bottom.
- Do not install the ASPower in a compartment where flammable material is stored, such as petrol or LPG.

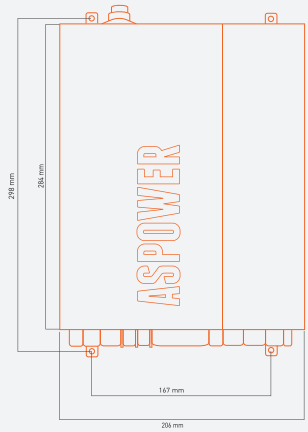
2. Mains cable

The ASPower is pre-cabled and fitted with a mains plug. Connections to mains supply must be in accordance with the national wiring rules.

An earth connection must be installed.
The plug must be accessible during installation, or an accessible mains disconnection switch must be incorporated in the mains wiring where the plug is connected.

3. Mounting

Securely mount the ASPower to a rigid surface.
Holes for connectors must be pre-drilled before mounting.
Screws with a maximum diameter of 5mm must be used.



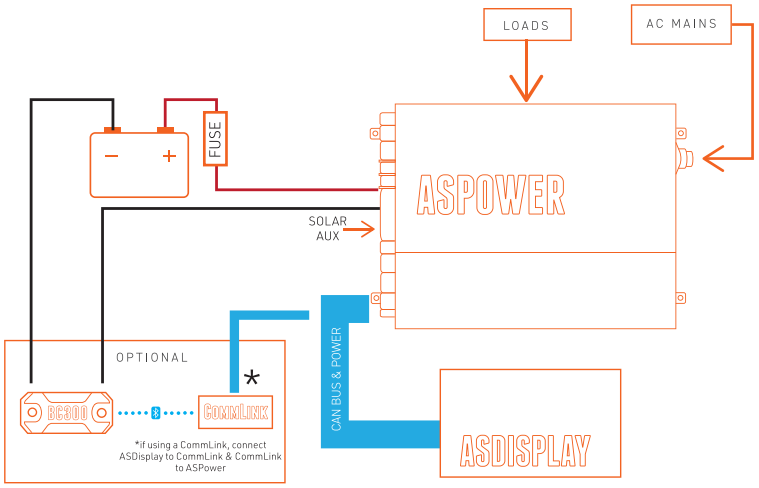
4. Voltage drop calculation

Scan the below QR code to determine the voltage drop of your wires. This will determine what cable size you need.

https://www.calculator.net/voltage-drop-calculator.html

5. Wiring diagram

See diagram to the right.

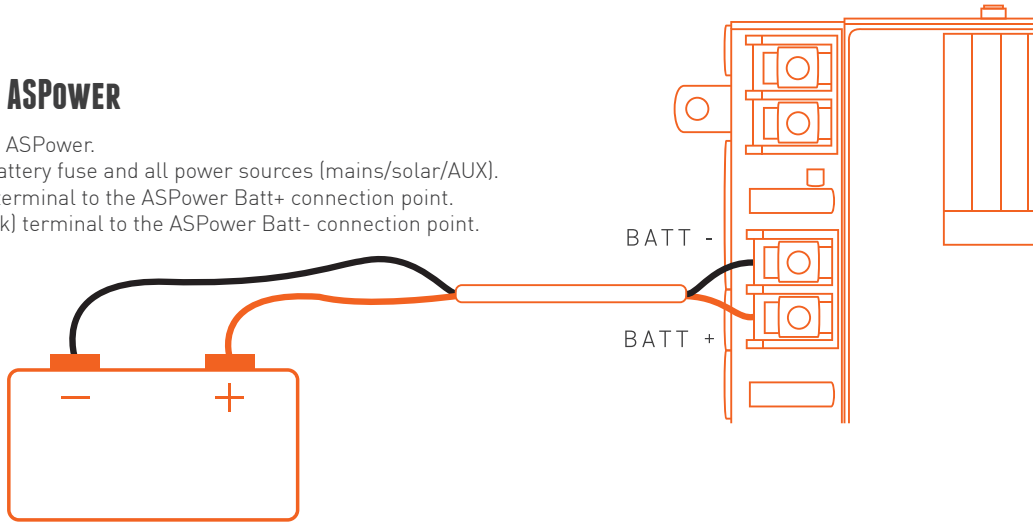


Before wiring the ASPower, make sure the ASDisplay is mounted. The ASPower connects to the ASDisplay via a CAN Bus cable.

Scan the QR code to view the ASDisplay install guide.

6. WIRING THE BATTERY TO THE ASPOWER

1. Power off all loads connected to the ASPower.
2. Turn off the ASPower, remove the battery fuse and all power sources (mains/solar/AUX).
3. Connect the battery's positive (red) terminal to the ASPower Batt+ connection point.
4. Connect the battery's negative (black) terminal to the ASPower Batt- connection point.
5. Reinsert the battery fuse.
6. Reconnect mains/solar/AUX.



7. CONFIGURE THE ASPOWER TO THE ASDISPLAY

Scan the below QR code to configure the ASPower battery chemistry and battery capacity in the ASDisplay.

8. TERMINAL OUTPUTS & LOAD RATING

TERMINAL/ LOAD	CURRENT RATING	TERMINAL/ LOAD	CURRENT RATING
1 Output	15A	8 Output	10A
2 Output	15A	9 Output	10A
3 Pump (1)	10A	10 Output	10A
4 Pump (2)	10A	11 Output	10A
5 Output	10A	12 Output	15A
6 Output	10A	13 Output	10A
7 Output	10A	14 Output	5A

9. LED STATUS INDICATOR

The LED Status Indicator shows the current battery charge status.

STATUS		COLOUR CODE	FLASHING STATUS
White	Internal Error		On, Solid
	Identify Device		Flashes, 5 Times Quickly
	Storage Mode		Flashes Every 2min
Yellow: Charging	AC, Charging Normally		On, Solid
	AC, Low Battery Voltage		Flashes, 1 Time
	AC Connected, No Battery		Flashes, 1 Time
	Solar, Charging Normally		Flashes, 2 Times Quickly
	Aux, Charging Normally		Flashes, 3 Times Quickly
Green: OK	AC, Battery OK or No Battery		On, Solid
	Solar, Battery OK		Flashes, 2 Times Quickly
	Aux, Battery OK		Flashes, 3 Times Quickly
	Normal, No source present		Flashes, 1 Time
Red: Error	One (or more) Output is Overloaded		On, Solid
	Critical Fault		Flashes, 4 Times Quickly
	Solar Fault		Flashes, 3 Times Quickly
	Battery Fault		Flashes, 2 Times Quickly
	Over Voltage Fault, or High Temperature Fault		Flashes, 1 Time
OFF	ASPower Powered Off		Off

HAZARDS & WARNINGS

Sparks have the potential to cause an explosion should combustible gases be present. These procedures are designed to minimise the risk of spark generation when connecting or disconnecting the battery. The positive terminal of the battery MUST NOT be connected to the chassis.

FAQs

ASPERO MANUAL