

AGM CARE GUIDE

Thank you for choosing **Aussie Batteries & Solar**.

Your new 12V AGM (Absorbent Glass Mat) battery is designed to provide years of reliable performance when used and maintained correctly. Following the recommendations below will help maximise your battery's lifespan, maintain optimum performance, and ensure it remains in the best possible condition.

Charging Your Battery

For the best performance, always use a quality charger with an AGM charging profile.

Recommended Charging Specifications

- Bulk/Absorption Voltage: 14.4V – 14.7V
- Float Voltage: 13.5V – 13.8V
- Maximum Charge Current: Up to 30% of the battery's Ah capacity (0.3C)
- Recommended Charge Current: Approximately 10–20% of the battery's Ah capacity for optimum battery life.

Examples:

- 100Ah Battery: 10–20A recommended
- 120Ah Battery: 12–24A recommended
- 200Ah Battery: 20–40A recommended

Avoid using chargers with Lithium, Gel or Calcium charging profiles unless they can be manually configured to suit AGM batteries.

Charging After Use

Recharge your AGM battery as soon as practical after each use.

Unlike lithium batteries, AGM batteries are more susceptible to damage if left in a partially discharged state. Repeatedly leaving the battery discharged can lead to sulphation, reducing capacity and shortening service life.

For maximum lifespan, recharge the battery promptly after every discharge and avoid leaving the battery below approximately 12.4V for extended periods.

Depth of Discharge

Although AGM batteries can be discharged to approximately 50% State of Charge, regularly discharging beyond this level will reduce battery life.

For the best service life:

- Recommended routine discharge: Up to 50% State of Charge
- Occasional deeper discharge: Up to 80% Depth of Discharge
- Avoid complete discharge whenever possible.

Storage

If your battery will not be used for an extended period:

- Fully charge the battery before storage.
- Disconnect all loads from the battery.
- Store in a cool, dry location away from direct sunlight and excessive heat.
- Do not store the battery in a discharged condition.
- Check the battery voltage every 2–3 months.
- Recharge whenever the battery falls below 12.6V.

Keeping the battery fully charged during storage will significantly reduce sulphation and maximise battery life.

Temperature Guidelines

For best performance:

- Charging Temperature: -10°C to 50°C
- Discharging Temperature: -20°C to 60°C
- Ideal Storage Temperature: 10°C to 25°C

Higher temperatures will reduce battery lifespan, while extremely cold temperatures will temporarily reduce available capacity.

General Care

- Keep battery terminals clean and securely tightened.
- Ensure cable connections are correctly sized and protected by suitable fuses or circuit breakers.
- Keep the battery clean and dry.
- Avoid exposing the battery to high-pressure washing or corrosive environments.
- Secure the battery correctly to minimise vibration.
- Do not dismantle or attempt to repair the battery.

Battery Monitoring

Regularly checking your battery can help identify issues before they become serious.

Where possible, monitor:

- Battery voltage
- State of Charge
- Charging voltage
- Current draw
- Charger operation

If fitted, a quality battery monitor provides a more accurate indication of battery condition than voltage alone.

If Your Battery Appears Flat

If your AGM battery becomes heavily discharged:

- Recharge using a quality AGM-compatible charger as soon as possible.
- Allow the charger to complete the full charging cycle.
- Avoid repeatedly deep discharging the battery, as this can lead to permanent sulphation and reduced capacity.

If the battery will not accept charge or appears faulty after charging, please contact our technical support team for assistance before attempting further troubleshooting.

Need Assistance?

Our team is always happy to help with charger settings, installation advice or troubleshooting. If you have any questions, contact the team at Aussie Batteries & Solar on 1800 853 315 or email us Reception@aussiebatteries.com.au

Thank you again for choosing Aussie Batteries & Solar.
Kind regards,

The Team
Aussie Batteries & Solar

State of Charge - Voltage Reference

State of Charge	12V	24V	36V	48V
100%	12.80V	25.60V	38.40V	51.20V
90%	12.70V	25.40V	38.10V	50.80V
80%	12.60V	25.20V	37.80V	50.40V
70%	12.50V	25.00V	37.50V	50.00V
60%	12.40V	24.80V	37.20V	49.60V
50%	12.20V	24.40V	36.60V	48.80V
40%	12.10V	24.20V	36.30V	48.40V
30%	12.00V	24.00V	36.00V	48.00V
20%	11.90V	23.80V	35.70V	47.60V