



# AGM

HIGH PERFORMANCE BATTERY

# SK-BATT50AH USER MANUAL

**CAUTION**  
PLEASE READ  
BEFORE INSTALLING

## INTRODUCTION

We take immense pride in the quality and reliability of our products. Skar Audio AGM High Performance Batteries are built to withstand even the most demanding conditions, ensuring that they will stand the test of time. Say goodbye to the inconvenience and frustration of battery failures, and welcome the peace of mind that comes with our exceptional batteries.



### CHARGE BATTERY BEFORE INITIAL USE

Before installing and wiring up your new Skar Audio AGM High Performance Battery, you will want to ensure that the battery is fully charged. To do so you will need to connect your new Skar Audio AGM High Performance Battery to an AGM specific charger that does not exceed 14.4v when charging. Once your AGM specific charger has completed the charging cycle, you can now install your new Skar Audio AGM High Performance Battery.



### DO NOT OVER-TIGHTEN BATTERY TERMINALS

Whether you are using the included automotive post adapters, bolts, or screws, do not exceed **8 ft-lbs max** when tightening. Over tightening can strip out the bolt holes and render your battery useless.

## INSTALLATION INSTRUCTIONS

- Make sure that the designated battery location is clear of any debris or obstructions, as the presence of such materials could potentially result in sparking if the battery comes into contact with them.
- Once you have successfully placed your new battery in its installation location, securely mount the battery to ensure it cannot fall over. *Skar Audio High Performance Batteries are designed to be universal and will fit in most automotive, truck, and marine applications.*
- Connect the battery leads to the correct terminals, **[+] Positive lead to [+] Positive terminal / [-] Negative lead to [-] Negative terminal**. *Reminder: Do not tighten the terminal bolts, screws, or automotive post adapters more than **8 ft-lbs** when connecting battery leads.*
- If you are running a dual battery setup, ensure that the batteries are wired together in **parallel** which is **[+] Positive to [+] Positive** and **[-] Negative to [-] Negative**. Parallel will double the amperage output and reserve capacities. If you wire your batteries in **series** which is **[+] Positive to [-] Negative** you will double the voltage output of your Skar Audio AGM High Performance Batteries.
- If this battery is being used as a secondary battery, please ensure it is properly grounded to the chassis (no plastic or painted metal, must be bare metal) and proper fusing has been achieved.



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## CHARGING INSTRUCTIONS

- When charging your Skar Audio AGM High Performance Battery you will always want to use an AGM specific charger that features an automatic shutoff to prevent over-charging or under-charging which could cause permanent damage to your battery.
- Charge your Skar Audio AGM High Performance Battery before initial use. This will ensure the battery will operate correctly once installed in your vehicle.
- Never allow your battery to charge above 2.4 volts per cell as this will cause the battery to “gas” and once the oxygen from the battery has vented, it cannot be restored.

## LONG TERM VEHICLE STORAGE

If your vehicle will be going into long term storage you will want to follow the instructions below to prevent long term damage to your Skar Audio AGM High Performance Battery.

- Disconnect the battery from the main battery leads as well as any devices that will draw power.
- Do not leave a trickle charger on the battery as this will overcharge the battery.
- Use a battery tender device to ensure the battery stays at peak voltage while in storage.
- Test the voltage of your battery after it has been in storage. If it is below 12.6 Volts, you will need to charge the battery back to full with your AGM specific charger before using it in your vehicle again.

## WARNINGS & SAFETY PRECAUTIONS

- Never remove vent caps under the top label - this is a sealed battery.
- Prevent tools or other metal objects from falling across the battery terminals as this will short circuit the battery and spark.
- Always wear protective clothing and eye wear when servicing a battery.
- Sulfuric acid can cause severe burns. If your skin comes in contact with acid, flush with water immediately. If acid goes into your eyes, flush with water immediately for 15 minutes and seek medical help as soon as possible.
- Keep any battery out of reach of children.


### SK-BATT50AH SPECIFICATIONS


Nominal Capacity	50Ah
Nominal Voltage	12 Volts
Cold Cranking Amps (CCA)	651 Amps
Reserve Capacity @ 25 Amps	70 Minutes
Max Continuous Discharge Current	750 Amps
20 Hour Rate	2.5A / 37.2Ah
5 Hour Rate	9.0A / 35.64Ah
1 Hour Rate	27.5A / 20.6Ah
½ Hour Rate	50A / 18Ah
Typical Cycle Life:	300 Cycles @ 100% Discharge Depth (Down to 10.5 Volts)


### CHARGING TIMES BASED ON USING A CURRENT TAPERING CHARGER SET AT 14.5 TO 15 VOLTS AND 100% RE-CHARGE


CHARGING AMPS	CHARGING TIME
10 AMPS	9.00 Hours Minimum / 15.00 Hours Max
15 AMPS	7.33 Hours Minimum / 13.33 Hours Max
20 AMPS	6.50 Hours Minimum / 12.50 Hours Max
25 AMPS	6.00 Hours Minimum / 12.00 Hours Max
30 AMPS	5.67 Hours Minimum / 11.67 Hours Max
35 AMPS	5.43 Hours Minimum / 11.43 Hours Max

### DANGER/POISON

 **FLUSH EYES** Immediately with water and get medical help.

 **STAND BACK** Explosive gases can cause blindness or injury.

 **SULFURIC ACID** Will cause severe burns and possibly blindness.

 **PROP 65 WARNING:**  
This product can expose you to chemicals including lead and lead compounds, which are known to the State of California to cause cancer or birth defects, or other reproductive harm. **Wash hands after handling.**  
For more information, visit [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

