



## Gen V Viper Lithium Ion Battery Kits

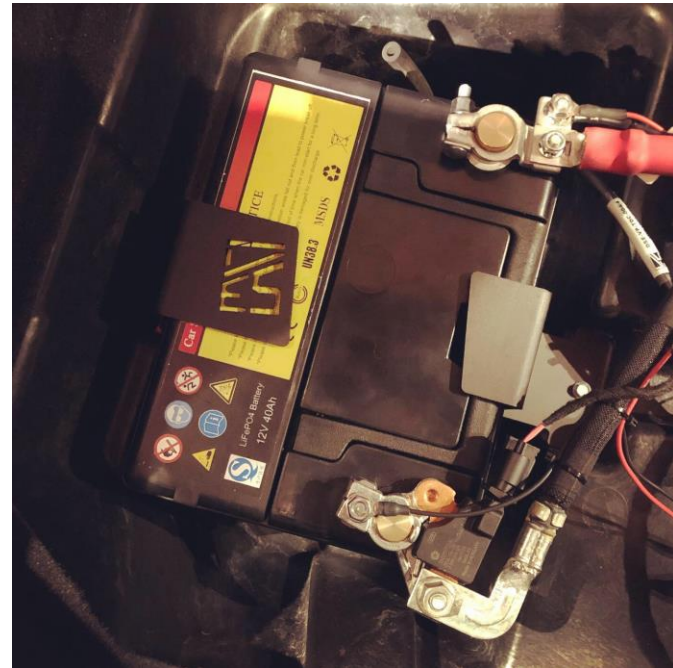
### Overview:

These are 12.8 lb and 10.2 lb net weight lithium ion battery, charger, and bracket kits. This kit saves around 20+ lbs depending on the weight of the OEM or replaced battery. The batteries are automotive grade lithium iron phosphate (LiFePO 4) and are more robust than other Lithium ion chemistries.

### Compatibility:

These are bolt-in kits for Gen V Vipers. This battery will function well under OEM electrical equipment loads. The alternator is designed to sustain OEM electronics with the engine running. Extended accessory operation without the engine running may drain the battery more quickly than the OEM battery. The 12.8 lb kits provides additional engine off capacity vs the 10.5 lb kit.

Evaluate the load of aftermarket electronic accessories prior to using them with this battery. Significant aftermarket electrical loads may not work well in conjunction with this battery (large stereo systems, etc.)



As with any lithium battery, it does not charge well under 0 degrees C and is not suited for cold weather use.

### **Battery kit Installed in a Gen V Viper**

### Construction:

The battery is constructed to withstand the rigors of the automotive environment. The mechanical build is designed to be robust and handle vibrations well. Internal electrical circuitry ensures a safe worry free experience when using the battery properly. The protections include: Individually Protected Cells; Over Charge; Over Discharge; Short Circuit; Penetration; Thermal Shock; Protection against fires; Protection against explosions. The battery is electrically sized to perform well under most conditions.

### Weight:

Battery and bracket weigh just 12.8 or 10.2 lbs when considering the weight savings to the OEM battery brackets.

### Electrical Specifications:

Nominal Capacity:	40 Ah (12.8lb) or 30 Ah (10.2 lb)
Nominal Voltage:	12.8V
Cranking Amps:	1000A
Charge Temperature:	0-45 degrees C
Discharge Temperature:	-20-60 degrees C

### Ordering Information:

DSE-VP-BA-005: Gen V 12.8 Pound Lithium Ion Battery Kit  
DSE-VP-BA-006: Gen V 10.2 Pound Lithium Ion Battery Kit

### Recommended Charging Accessories:

DSE-VP-BA-003: Gen V Quick Access Charger Connector Mount and Harness

**Installation Guide:**

- Gain access to the battery by removing the load floor.
- Remove the battery bracket(s) securing your OEM battery.
- Remove the battery terminals, starting with the positive connection taking care to ensure they do not touch each other.
- Install the DSE battery with two-piece bracket. Ensure the battery is orientated square to the bracket while tightening.
- Ensure the battery is secure and does not move in the mounted location.
- Reinstall the battery terminals starting with the negative terminal.

**Inspection and Maintenance:**

- Periodically check the battery is secure.
- Only use the charger included with the kit to charge this battery. Contact us to evaluate an alternate charger.
- It is ideal to keep the battery on charge at all times, especially when the vehicle will not be driven for long periods. The charger connector accessories listed above allow a convenient means by which to do this.
- Battery voltage should remain between 13V and 14.5V depending on the level of charge.
- When the vehicle will not to be run for extended periods of time (several days or more), keep the battery on charge with the provided charger; if desired put the car into hibernation mode.
- If the car is sitting for several weeks without the engine being started, reset the battery charger periodically by unplugging for 20 seconds (both wall and car) to ensure it has not entered sleep mode. This will ensure the charger is active and will continue charging the battery.

**Thank you for your purchase!**

*Your business is appreciated and customer satisfaction is our top priority! Don't hesitate to contact us via email with any questions or feedback. Word of mouth is the best form of advertising so if you are satisfied please spread the word!*

**Disclaimer of Liability:**

*Doug Shelby Engineering assumes no liability expressed or implied for the improper installation or use of this product or its components. Doug Shelby Engineering is NOT responsible for any damage, consequential or otherwise for equipment failure after installation.*

**Vehicle Modification:**

*Modification of your vehicle with the parts identified above may alter its stock performance; the buyer hereby expressly assumes all risks associated with any such modification.*

**Disclaimer of Warranty:**

*Seller disclaims any warranty express or implied with respect to the parts sold hereby whether as to merchantability, fitness for particular purpose, or any other matter.*