Choosing the right Fullriver Battery for your application....

Just 3 simple steps...

Step 1	Define the type of battery needed for your application: **Deep Cycle, Starting or Dual Purpose**
Step 2	Determine the battery performance requirements: **Size, Capacity and number of batteries**
Step 3	Order from one of Fullriver's Authorized World-Wide Distributors and enjoy the convenience of a high quality, maintenance-free battery!

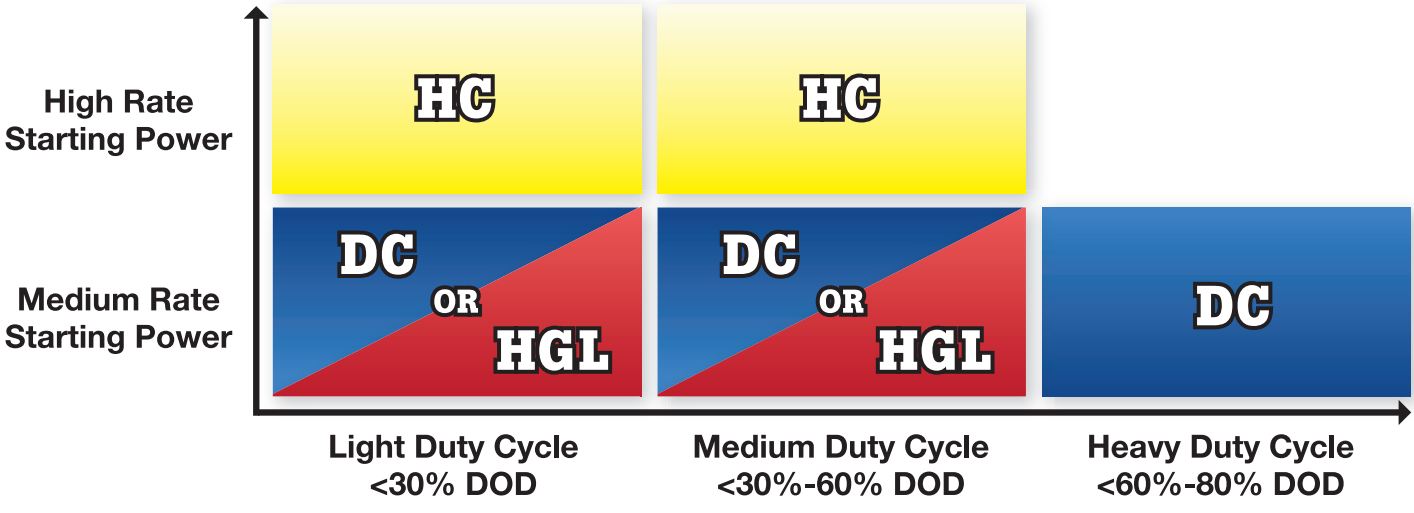
Before using this guide, check if your equipment manufacturer provides recommended battery specifications. Make sure you know your system voltage, battery compartment size (length, width and height) and your energy requirements.

1. First we need to determine what type of battery you need.

To choose the right battery we need to identify your application to determine whether you need a deep cycle battery, starting battery or dual purpose battery (both starting and cycling).

Deep cycle batteries are used to power electrical equipment such as electric golf cars, utility vehicles, floor cleaning machines, scissor lifts, boats, RVs, solar power backup and many more. For these applications you have two options, either a DC or HGL series Fullriver battery. The DC series will provide power for all cycling applications and the HGL for light to moderate cycling.

Starting batteries are used to start engines in all types of vehicles such as automobiles, emergency response vehicles, trucks, construction equipment, boats, RVs and many more. Dual purpose batteries are used to start engines in all types of vehicle as well as power a range of accessories within the vehicle. For starting or dual purpose applications your best solution is an HC series Fullriver battery.



2. Define your battery performance needs.

Now you must decide which batteries to use and how many to provide the system voltage and energy you need to power your equipment. Keep in mind that the size of your battery compartment may limit your options.

System Voltage

There may be more than one option to meet your voltage requirements. For example, for a 12 Volt system you may use one 12 Volt battery or two 6 Volt batteries wired in series to make up the 12 Volts. You may use as many batteries as you need to make up the system voltage. See the **Series Connection** diagram below.

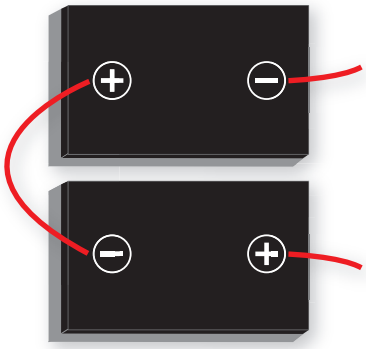
Energy Requirements

There may be more than one option to meet your energy requirements. For example, to meet the requirements for a 210 Amp-Hour system you may use one 210 Amp-Hour battery or two 105 Amp-Hour batteries wired in parallel to make up the 210 Amp-Hours. It is advised not to exceed 4 parallel strings in your battery system. See the **Parallel Connection** diagram below.

You may also wire batteries in both series and parallel to attain the desired system voltage and energy requirements. See the **Series/Parallel Connection** diagram below.

Always use the exact same battery model within a battery pack. Do not mix batteries of different capacities.

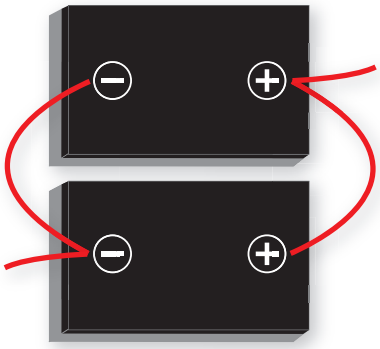
Series Connection



Voltage is increased in a series connection

Two 6V, 250 AH batteries wired in series
12V, 250 AH

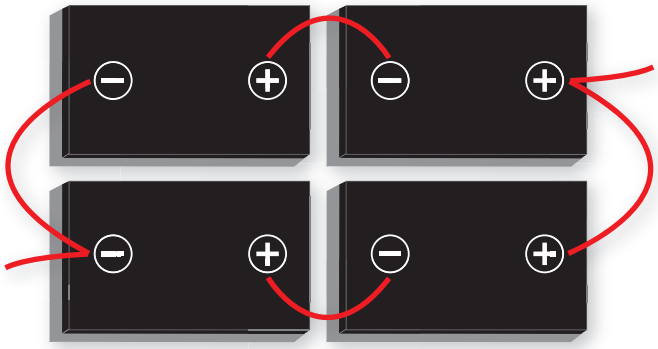
Parallel Connection



Capacity is increased in a parallel connection

Two 12V, 105 AH batteries wired in parallel
12V, 210 AH

Series/Parallel Connection



Voltage and capacity are increased in a series/parallel connection

Two 12V, 105 AH batteries wired in series/parallel
24V, 210 AH

Note: Leave some space between batteries for airflow and minor battery expansion.

3. Order your Fullriver Battery Now!

Now that you have defined your battery needs refer to your Fullriver Brochure to select the model that meets those specifications. **Call your local Fullriver Battery Distributor and they would be happy to assist you in the final selection of your new Fullriver batteries.**

Important tips to get the most out of your investment:

a) Use the proper charger to maximize the life of your Fullriver Battery.
b) Use the proper cable size to ensure the connections do not overheat.
c) Never place anything (such as a washer) between the mating surfaces of the terminals and cables as this will comprimise electrical transmission and increase resistance resulting in extreme heat generation and probable terminal melting.
d) Never place batteries in an inverted orientation. Fullriver batteries may be placed upright or on their side, however all batteries within a battery pack should be placed in the same orientation.

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www.fullriverdcbattery.com