To increase both voltage and amp-hour capacity, connect batteries in series/parallel.

How To Increase System Power
Two or more batteries can be easily connected to boost your system's voltage and/or capacity. There are three methods to obtain additional voltage and/or capacity, as described below:

To increase voltage, connect batteries in series.

Battery System: 12 Volt, 225 AH
Using Two T-105 Deep Cycle Batteries (6 Volts, 225 AH)

To increase amp-hour capacity, connect batteries in parallel.

Battery System: 12 Volt, 450 AH
Using Four T-105 Deep Cycle Batteries (6 Volts, 225AH)

NOTE: These systems can also be configured using 12-volt batteries. It is not recommended that you mix batteries of different voltages within the same system.

12. Ohm (Ω) - A unit of measurement for electrical resistance within a circuit.
13. Open Circuit Voltage - The voltage of a battery when there is no load attached (not receiving or delivering energy). This measurement is best taken when the battery has been at rest for at least 6 hours.
14. Power Inverter - An electronic device that converts direct current (DC) power from a battery into standard alternating current (AC) house power.
15. Primary Battery - An energy storage device that can deliver energy but cannot be recharged. (i.e., disposable flashlight battery)
16. Secondary Battery - An energy storage device that can deliver energy and can be recharged. (i.e., automotive or deep cycle battery)
17. Separator - A divider made of porous material that is placed between the positive and negative plates in a battery cell and allows current to flow through it, while preventing direct contact between the plates which would cause a short circuit.
18. Specific Gravity (S.G.) - A measurement of the strength of battery electrolyte by comparing its density to that of pure water.
19. Stratification - A condition where the concentration of acid is greater at the bottom of the battery than at the top.
20. Sulfation - The formation of lead sulfate on the positive and negative electrodes.
21. Volt (V) - A unit of measurement for electrical potential within a circuit.
22. Watt (W) - A unit of measurement for electrical power.
23. Watt Hour (Wh) - A unit of measurement for electrical power for a certain period of time.