

## DETERMING LITHIUM BATTERY SIZE

Modern LFP type Lithium Iron Phosphate batteries typically can supply over twice the 12-Volt power as the equally sized Lead/Acid battery presently installed in your RV. Most weekend RV users will probably find this a sufficient amount of power from Lithium however, Dry campers will want more than 100 Amp Hour Rating (AH) to support longer stays off the grid. Determining the battery size is based on how long you want to be off grid, the space you have to install batteries and the size of your wallet. You know how long your present battery pack lasts and its AH rating. Figuring Lithium has 2X the power per AH the size you require should be easy to figure.

The initial cost of a 100 AH Deep Cycle Lithium Battery can vary between \$900 to over \$1,200 depending on the # of charge and discharge cycles it can provide typically between 2,000 & 5,000 and length of warranty up to 5-years. Typically, a high quality Deep Cycle AGM Lead/Acid Battery costs about \$250 with an average of 300 charge and discharge cycles and a warranty period of 2-years.

Is a Lithium Battery worth it? Based on the long-term costs yes, it is! With 10 Times, the life of AGM Batteries. Replacing 10 AGM Batteries @ \$250 each = \$2,500 would cost over twice as much as the most expensive Lithium Battery without the hassle of buying and replacing many AGM Batteries. The long life of Lithium means it will most likely outlast your RV fortunately however, it will probably still have enough life left to be installed in your next RV and provide power for several more years.