

ELECTROLYTE REPLACEMENT

A Nickel Iron battery's electrical capacity will degenerate approximately 1% per year under normal use. This is due to a carbonate buildup in the electrolyte. Due to this degradation, it is recommended to replace the battery's electrolyte every 10 years +/- to recover this capacity loss.

The **Iron Edison Electrolyte Replacement Kit** provides you with the needed chemicals in powder form to mix up to 90 liters of electrolyte. Reference the chart below to determine how many Electrolyte Replacement Kits your battery bank will need.

Capacity	Battery Bank Voltage					
	12 Volt (10 Cells)		24 Volt (20 Cells)		48 Volt (40 Cells)	
100 Amp Hour	Kits Required	1	Kits Required	1	Kits Required	1
	Electrolyte (liters)	15	Electrolyte (liters)	30	Electrolyte (liters)	60
200 Amp Hour (small jar*)	Kits Required	1	Kits Required	1	Kits Required	1
	Electrolyte (liters)	15	Electrolyte (liters)	30	Electrolyte (liters)	60
200 Amp Hour (large jar*)	Kits Required	1	Kits Required	2	Kits Required	3
	Electrolyte (liters)	57	Electrolyte (liters)	114	Electrolyte (liters)	228
300 Amp Hour	Kits Required	1	Kits Required	2	Kits Required	3
	Electrolyte (liters)	57	Electrolyte (liters)	114	Electrolyte (liters)	228
400 Amp Hour (small jar*)	Kits Required	1	Kits Required	2	Kits Required	3
	Electrolyte (liters)	57	Electrolyte (liters)	114	Electrolyte (liters)	228
400 Amp Hour (large jar*)	Kits Required	1	Kits Required	2	Kits Required	4
	Electrolyte (liters)	91	Electrolyte (liters)	182	Electrolyte (liters)	364
500 Amp Hour	Kits Required	1	Kits Required	2	Kits Required	4
	Electrolyte (liters)	91	Electrolyte (liters)	182	Electrolyte (liters)	364
600 Amp Hour	Kits Required	1	Kits Required	2	Kits Required	4
	Electrolyte (liters)	87	Electrolyte (liters)	174	Electrolyte (liters)	348
700 Amp Hour	Kits Required	1	Kits Required	2	Kits Required	4
	Electrolyte (liters)	87	Electrolyte (liters)	174	Electrolyte (liters)	348
800 Amp Hour	Kits Required	2	Kits Required	4	Kits Required	8
	Electrolyte (liters)	167	Electrolyte (liters)	334	Electrolyte (liters)	668
900 Amp Hour	Kits Required	2	Kits Required	4	Kits Required	8
	Electrolyte (liters)	163	Electrolyte (liters)	326	Electrolyte (liters)	652
1,000 Amp Hour	Kits Required	2	Kits Required	4	Kits Required	8
	Electrolyte (liters)	159	Electrolyte (liters)	318	Electrolyte (liters)	636

* The jar size of certain Iron Edison Nickel Iron batteries has changed over time. Use the dimensions below to determine which jar size you have:

- 200 Amp Hour (small jar): 14.5" tall X 3.2" wide X 5.6" deep
- 200 Amp Hour (large jar): 17.7" tall X 5.4" wide X 10.9" deep
- 400 Amp Hour (small jar): 17.7" tall X 5.4" wide X 10.9" deep
- 400 Amp Hour (large jar): 20.1" tall X 6.9" wide X 11.5" deep