Lithionics Battery

Why is Lithium-Ion Better than Lead-Acid?

	Lead Acid	Li^3	OUR LITHIUM-ION-IRON PHOSPHATE CHEMISTRY IS THE SUPERIOR ELECTROLYTE FOR THESE REASONS:
Battery/pack specific energy, Wh/kg	30-50	110-190	4 TIMES STRONGER OR 4 TIMES LIGHTER (SEE NOTE)
Discharge cycles 80% D.O.D.	300-600	2000+	6-8 TIMES LONGER LIFE THAN LEAD ACID
Charge time, hours	2-5	0.5-2	1/2 TO 2 HOUR RECHARGE TIMES: 4 TIMES FASTER!
Solar charge acceptance, round-trip	36%	98%	3 TIMES MORE ENERGY HARVESTED
Self discharge/month, %	5	1-2	MAINTAINS 75% OF ITS ENERGY AFTER 1 YEAR
Average operating voltage per cell	2	3.2	REPLACES: 6.4V, 9.6V, 12.8V, 16V, 24V, 36V, 48V, ETC.
Relative battery/pack cost	1X	2-4X	HIGHER INITIAL COST, LOWER COST-OF-OWNERSHIP
Relative safety	2	1.5	SAFER THAN ANY LEAD ACID BATTERY
Relative environmental	3	1	FINALLY: AN ECO-FRIENDLY GREEN BATTERY!

Note: 1 Pound of Lithium is 3 to 4 Times More Powerful than 1 Pound of Lead-Acid.
Or, Amp-Hour for Amp-Hour, Lithium is 3 to 4 Times Lighter than Lead-Acid.
In sum, the User Obtains EITHER an increase Power or Decreased Weight, but not both.