

COMPARISON OF LEAD-ACID AND RELION LiFePO₄

CHARACTERISTIC		GROUP 31 FLA	GROUP 31 AGM	GROUP 31 GEL	RELION LiFePO ₄ GROUP 31 - RB100	BENEFIT OF LiFePO ₄
Voltage		12V (2V per cell)	12V (2V per cell)	12V (2V per cell)	12.8V (3.2V per cell)	More Power
Life Cycles @ 80% DOD		500	400	1000	7082 (to 70% remaining capacity)	Longer Life 6-10X More
Life Cycles @ 50% DOD		900	800	1400	13000 (to 70% remaining capacity)	
Weight		30 kg (66.1 lbs)	32.7 kg (72.1 lbs)	32 kg (70lbs)	13.5 kg (30 lbs)	<1/2 the Weight
Capacity @ 27°C (80°F)	C20	130AH	115AH	102AH	100AH	Constant Power and Energy at any Rate of Discharge
	C5	105AH	91AH	85AH	100AH	
	C1	74AH	62AH	70AH	100AH	
Capacity @ 0°C (32°F)		50%	68%	68%	90%	Superior cold temp performance
Charge Time		6-12 hrs	6-12 hrs	6-12 hrs	1-3 hrs	4-6x Faster
Maintenance		HIGH	LOW	LOW	NONE	No Maintenance
*Real Cost per cycle @ 80% DOD		\$0.67	\$0.92	\$0.57	\$0.31	Cost over life

**Real Cost per cycle includes maintenance labor, replacement product and labor, and electrical costs to charge batteries.*