

Sirius Capacitor Module vs Other - Running Cost Comparison



	7.1kWh Capacity Comparison		
	Lead Acid	LifePO4	Sirius Supercap
Rating	15,120Watt	10,000Watt	7,000Watt
Available Capacity in kWh	7.5	7	7.1
Number of Units	12	1	1
Total Weight in Kg	324	75	130
Total Cost	R 30,000.00	R 68,000.00	R 88,111.00
Depth of Discharge	50%	70%	100%
Total Life Cycles @ DOD above	1200	4,400	16,425
Cost per Cycle	R 25.00	R 15.45	R 5.36
Cost per kWh on Solar PV Initial	R 3.33	R 2.21	R 0.76
Replacement After Number of Years	3.28	10	45
Number of Replacement Cycles in 20 years	6	1	0
Repalcement Cost @ 6% Inflation p.a. (1st Cycle)	R 42,876.00	R 129,085.00	0
Repalcement Cost @ 6% Inflation p.a. (2nd Cycle)	R 51,066.00		
Repalcement Cost @ 6% Inflation p.a. (3rd Cycle)	R 60,820.00		
Repalcement Cost @ 6% Inflation p.a. (4th Cycle)	R 72,438.00		
Repalcement Cost @ 6% Inflation p.a. (5th Cycle)	R 86,275.00		
Repalcement Cost @ 6% Inflation p.a. (6th Cycle)	R 102,754.00		
Total Cost over 20 Years	R 446,229.00	R 197,085.00	R 88,111.00
Total Life Cycles for period	7200	8800	16,425
Cost per Cycle - Year 20	R 61.98	R 22.40	R 5.36
Cost per kWh - Year 20	R 8.26	R 3.20	R 0.76
Comparison over a 20 year cycle based on the full life cycle of each product Although the Sirius has a Life expectancy of over 1 million cycles, the comparison is based on a 45 year life span.			

