

# Energy Matters



## Sacred Sun Lead Carbon Batteries

*The Power of  
Lithium Without  
the Cost*

The patented technology from Furukawa

Japanese Furukawa battery company's advanced lead carbon technology, product design, and manufacturing experience, produces high performance AGM VRLA batteries with deep cycles for a superior energy storage system.

Extremely long cycle life

Using long-life technology and design, Sacred Sun batteries provide more than 5000 cycles @50% depth of discharge for a life span of over 14 year

Innovative Lead Carbon Technology

Using lead carbon technology improves the charge acceptance ability, reduces the negative plate sulphation, and is more suitable for partial state of charge (PSOC) applications.



**SACRED SUN**

**AUTHORIZED DEALER**

# Battery Comparison Specifications

Batteries	Retail CDN	Amp hour 20hr rate	Volts	Total watt hours	Cost/watt hour	Rec. D.O.D	Usable kWh at D.O.D	Cycle Life @Rec. D.O.D.	Years @Rec. D.O.D. 1 cycle /day	Life-time kWh	Cost/usable kWh	Life-time cost/usable kWh	Main. Re-quired
<b>Lithium Batteries</b>													
Powersync LFP -12.8-250	\$3,711	250	12.8	3,200	\$1.16	50%	1.6	5000	13.70	8,000	\$2.32	\$0.46	Low
Iron Edison Lithium Ion Phosphate	\$20,115	400	48	19,200	\$1.05	70%	13.44	5500	15.07	73,920	\$1.50	\$0.27	Low
Powersync Ess-lfp-51-200	\$10,400	200	51.2	10,240	\$1.02	50%	5.12	5000	13.70	25,600	\$2.03	\$0.41	Low
<b>AGM Batteries</b>													
Powersonic PS1300	\$784	1200	2	2,400	\$0.33	30%	0.72	2250	6.16	1,620	\$1.09	\$0.48	Low
Surrette S2-1180 AGM	\$1,094	1100	2	2,200	\$0.50	30%	0.66	2250	6.16	1,485	\$1.66	\$0.74	Low
Deka Unigy ii AVR 95-33	\$611	1807	2	3,614	\$0.17	30%	1.0842	1800	4.93	1,952	\$0.56	\$0.31	Low
Vision EVL-16	\$716	400	6	2,400	\$0.30	30%	0.72	2700	7.40	1,944	\$0.99	\$0.37	Low
Surrette S6-460 AGM	\$726	415	6	2,490	\$0.29	30%	0.747	2250	6.16	1,681	\$0.97	\$0.43	Low
Outback Enercell 200RE	\$805	200	12	2,400	\$0.34	30%	0.72	1800	4.93	1,296	\$1.12	\$0.62	Low
Deka 8A8D AGM	\$759	245	12	2,940	\$0.26	30%	0.882	1200	3.29	1,058	\$0.86	\$0.72	Low
<b>Flooded Batteries</b>													
Surrette 2KS- 33P	\$999	1766	2	3,532	\$0.28	30%	1.0596	2400	6.58	2,543	\$0.94	\$0.39	High
Surrette 6CS-17P	\$1,285	546	6	3,276	\$0.39	30%	0.9828	2400	6.58	2,359	\$1.31	\$0.54	High
Surrette S-550	\$452	428	6	2,568	\$0.18	30%	0.7704	1800	4.93	1,387	\$0.59	\$0.33	High
Surrette S-605	\$711	482	6	2,892	\$0.25	30%	0.8676	1800	4.93	1,562	\$0.82	\$0.46	High
<b>Nickel Iron Batteries</b>													
Iron Edison Nickel Iron Battery	\$2,619	200	12	2,400	\$1.09	80%	1.92	11000	30.14	21,120	\$1.36	\$0.12	High
<b>Lead Carbon Batteries</b>													
Outback Energy Cell 200NC Nano-Carbon	\$989	200	12	2,400	\$0.41	50%	1.2	2600	7.12	3,120	\$0.82	\$0.32	Low
Outback Energy Cell 200NC Nano-Carbon	\$20,555	810	48	38,880	\$0.53	50%	19.44	2600	7.12	50,544	\$1.06	\$0.41	Low
Sacred Sun Lead Carbon FCP500 12V	\$3,086	618	12	7,416	\$0.42	50%	3.708	5200	14.25	19,282	\$0.83	\$0.16	Low
Sacred Sun Lead Carbon FCP500 24V	\$6,171	618	24	14,832	\$0.42	50%	7.416	5200	14.25	38,563	\$0.83	\$0.16	Low
Sacred Sun Lead Carbon FCP500 48V	\$12,342	618	48	29,664	\$0.42	50%	14.832	5200	14.25	77,126	\$0.83	\$0.16	Low
Sacred Sun Lead Carbon FCP1000 12V	\$6,171	1199	12	14,388	\$0.43	50%	7.194	5200	14.25	37,409	\$0.83	\$0.16	Low
Sacred Sun Lead Carbon FCP1000 24V	\$12,342	1199	24	28,776	\$0.43	50%	14.388	5200	14.25	74,818	\$0.83	\$0.16	Low
Sacred Sun Lead Carbon FCP 10000 48V	\$24,684	1199	48	57,552	\$0.43	50%	28.776	5200	14.25	149,635	\$0.83	\$0.16	Low

**Disclaimer :** Sacred Sun batteries have been independently tested by a Canadian engineer under real world conditions. All other battery values are based on manufacturers' spec. sheets. When comparing batteries request actual testing data, as manufacturers may extrapolate from partial tests.

D.O.D = Depth of Discharge  
 Main. = Maintenance  
 Rec. = Recommended  
 kWh = Kilowatt Hours