

Soft Sun+ NiCd Batteries

Sunica Nickel Cadmium batteries for solar systems

The Sunica Ni-Cd batteries are the first choice for solar systems when performance in cold conditions, a long lifetime, and a low life cycle cost is the target. The battery chemistry is ideal for solar applications with a very low daily discharge and only one major discharge per year in the winter. The modular design offers good flexibility to build battery banks to suit customer needs. The Sunica batteries have a proven track record of performance since the 1970's in demanding industrial applications.

- Lifetime expectancy in excess of 20 years, up to 8000 cycles to 15 %
- Battery design and gas recombination pocket optimised for photovoltaic applications
- Limited maintenance, typically once every four years
- Excellent performance in temperatures below -20°C (-4°F)
- Temperature range -50°C to +70°C (-58°F to 158°F)
- Resistant to over- and undercharging and complete discharge
- No premature capacity loss (sulphation) when cycled at low state of charge
- Large capacity range 50 Ah-1830 Ah
- Used batteries are returned to manufacturer for 100 % recycling



Main Specifications/Order Overview

Type/ Order Code	Capacity		Height		Width		Length per block												Weight		Internal resi- stance *	Cell connection bolt per pole
	C ₁₂₀ 120 h 1.0 V Ah	C ₅ 5 h 1.0 V Ah	mm	in	mm	in	1 cell		2 cell		3 cell		4 cell		5 cell		6 cell		per cell			
							mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb		
SUN+ 50	50	45	405	15.9	195	7.7			63	2.5	88	3.5	112	4.4	137	5.4	162	6.4	3.2	7.1	5.04	M6
SUN+ 100	100	95	405	15.9	195	7.7			85	3.9	121	4.8	156	6.1	192	7.6	228	9.0	4.9	10.8	2.55	M8
SUN+ 150	150	140	405	15.9	195	7.7			109	4.3	157	6.2	204	8.0	252	9.9	300	11.8	6.2	14.7	1.73	M10
SUN+ 200	200	185	405	15.9	195	7.7			133	5.2	193	7.6	252	9.9	312	12.2	372	14.6	8.4	18.5	1.31	M10
SUN+ 250	250	235	405	15.9	195	7.7			159	6.3	232	9.1	304	11.9	377	14.8	450	17.7	9.9	21.8	1.03	M10
SUN+ 305	305	280	405	15.9	195	7.7			183	7.2	268	10.6	352	13.8	437	17.2	522	20.5	11.5	25.3	0.86	M10
SUN+ 355	355	325	405	15.9	195	7.7			228	9.0	336	13.2							15.1	33.2	0.74	2xM10
SUN+ 405	405	375	405	15.9	195	7.7			252	9.9	372	14.6							16.8	37.0	0.65	2xM10
SUN+ 455	455	420	405	15.9	195	7.7			278	10.9	411	16.1							18.3	40.3	0.58	2xM10
SUN+ 505	505	470	405	15.9	195	7.7			304	11.9	450	17.7							19.8	43.6	0.51	2xM10
SUN+ 555	555	515	405	15.9	195	7.7	171	6.7											21.4	47.1	0.47	2xM10
SUN+ 610	610	560	405	15.9	195	7.7	183	7.2											23.0	50.7	0.43	2xM10
SUN+ 660	660	610	405	15.9	195	7.7	207	8.1											26.5	58.4	0.40	3xM10
SUN+ 710	710	650	405	15.9	195	7.7	219	8.6											28.2	62.1	0.37	3xM10
SUN+ 760	760	700	405	15.9	195	7.7	232	9.1											29.7	65.4	0.35	3xM10
SUN+ 810	830	768	405	15.9	195	7.7	243	9.6											34.5	76.1	0.32	3xM10
SUN+ 860	860	800	405	15.9	195	7.7	256	10.0											32.9	72.5	0.30	3xM10
SUN+ 910	910	840	405	15.9	195	7.7	268	10.5											34.5	76.0	0.29	3xM10
SUN+ 960	960	890	405	15.9	195	7.7	291	11.4											38.1	83.9	0.27	4xM10
SUN+ 1015	1015	940	405	15.9	195	7.7	304	11.9											39.6	87.3	0.26	4xM10
SUN+ 1065	1065	980	405	15.9	195	7.7	315	12.4											41.2	90.8	0.25	4xM10
SUN+ 1115	1115	1030	405	15.9	195	7.7	327	12.8											42.9	94.5	0.23	4xM10
SUN+ 1170	1170	1080	405	15.9	195	7.7	352	13.8											46.3	102.0	0.22	4xM10
SUN+ 1215	1215	1120	405	15.9	195	7.7	352	13.8											46.0	101.0	0.22	4xM10
SUN+ 1270	1270	1170	405	15.9	195	7.7	352	13.8											49.5	109.0	0.21	5xM10
SUN+ 1320	1320	1220	405	15.9	195	7.7	387	15.2											51.3	113.0	0.20	5xM10
SUN+ 1370	1370	1260	405	15.9	195	7.7	400	15.7											52.7	116	0.19	5xM10
SUN+ 1420	1420	1300	405	15.9	195	7.7	412	16.2											54.4	119.9	0.19	5xM10
SUN+ 1470	1470	1350	405	15.9	195	7.7	425	16.7											55.9	123.0	0.18	5xM10
SUN+ 1520	1520	1400	405	15.9	195	7.7	437	17.2											57.5	126.7	0.17	5xM10
SUN+ 1570	1570	1450	405	15.9	195	7.7	462	18.2											61.0	134.0	0.17	5xM10
SUN+ 1620	1620	1500	405	15.9	195	7.7	472	18.5											62.8	138.4	0.16	6xM10
SUN+ 1670	1670	1550	405	15.9	195	7.7	485	19.1											64.2	142.0	0.16	6xM10
SUN+ 1720	1720	1600	405	15.9	195	7.7	497	19.5											65.9	145.2	0.15	6xM10
SUN+ 1775	1775	1650	405	15.9	195	7.7	510	20.1											67.4	149.0	0.15	6xM10
SUN+ 1830	1830	1700	405	15.9	195	7.7	522	20.5											69.0	152.1	0.14	6xM10