



**SUN XTENDER BATTERIES**  
 A Division of Concorde Battery Corp.  
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	Technical Information	Company Info
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## AGM DEEP CYCLE SOLAR BATTERIES

**ABSORBENT GLASS MAT  
 VALVE REGULATED SEALED LEAD ACID (VRLA)  
 MAINTENANCE-FREE BATTERIES**  
**Designed for: RENEWABLE ENERGY STORAGE SYSTEMS  
 SOLAR, PV AND WIND, OFF GRID & GRID TIED SYSTEMS**

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Part Number	Volts	Industry Reference	Overall Dimensions						Unit Wt		Nominal Capacity Ampere Hours @ 25° C (77° F) to 1.75 volts per cell								
			Length		Width		Height		Lbs	Kgs	1 Hour Rate	2 Hour Rate	4 Hour Rate	8 Hour Rate	24 Hour Rate	48 Hour Rate	72 Hour Rate	100 Hour Rate	120 Hour Rate
			in	mm	in	mm	in	mm											
PVX-340T	12	U1	7.71	196	5.18	132	6.89	175	25	11.4	21	27	28	30	34	36	37	37	38
PVX-420T	12	U1 Tall	7.71	196	5.18	132	8.05	204	30	13.6	26	33	34	36	42	43	43	44	45
PVX-490T	12	22NF	8.99	228	5.45	138	8.82	224	36	16.4	31	39	40	43	49	52	54	54	55
PVX-560T	12	22NF	8.99	228	5.45	138	8.82	224	40	18.2	36	45	46	49	56	60	62	62	63
PVX-690T	12	24	10.22	260	6.60	168	8.93	227	51	23.2	42	53	55	60	69	73	76	78	79
PVX-840T	12	24	10.22	260	6.60	168	8.93	227	57	25.9	52	66	68	74	84	90	94	96	97
PVX-890T	12	31	12.90	328	6.75	172	8.96	228	62	28.2	55	70	72	79	89	95	98	100	102
PVX-1040HT	12	27	13.12	333	6.60	168	8.93	227	63	28.6	65	82	85	93	104	112	116	118	120
PVX-1040T	12	27	12.01	305	6.60	168	8.93	227	63	28.6	65	82	85	93	104	112	116	118	120
PVX-1080T	12	31	12.90	328	6.75	172	8.96	228	65	29.5	68	86	88	97	108	118	122	124	126
PVX-1180T	12	31	12.90	328	6.75	171	8.96	228	72	32.7	72	92	95	104	118	128	133	135	137
PVX-1290T	12	31	12.90	328	6.75	171	8.96	228	75	34.0	79	100	103	113	129	139	144	146	149
PVX-1530T	12	30H Tall	13.46	342	6.77	172	11.95	304	97	44.0	95	120	124	136	153	167	173	176	179
PVX-2120L	12	4D	20.76	527	8.70	221	9.77	248	127	57.6	136	172	176	194	212	235	244	250	253
PVX-2580L	12	8D	20.76	527	10.89	277	9.77	248	159	72.1	165	209	214	236	258	285	295	300	305
PVX-1030T	6	24	10.21	259	6.60	168	8.92	227	42	19.1	65	82	85	93	103	112	116	118	120
PVX-1380T	6	24	10.21	259	6.60	168	8.92	227	51	23.2	84	106	110	120	138	146	151	155	158
PVX-2240T	6	GC2	10.28	261	7.06	179	9.92	252	67	30.4	143	180	185	204	224	246	256	260	263
PVX-3050T	6	GC2 Tall	10.28	261	7.06	179	12.94	329	91	41.3	190	245	270	280	305	335	348	354	358
PVX-2560T	6	31	12.90	328	6.75	171	8.96	228	75	34.0	158	200	206	226	256	278	288	292	298
PVX-4050HT	6	L16	11.64	296	6.95	177	15.73	399	120	54.4	266	345	360	376	405	424	434	443	448
PVX-5040T	2	24	10.21	259	6.60	168	8.93	227	57	25.9	312	396	408	444	504	540	561	574	582
PVX-5340T	2	31	12.90	328	6.75	171	8.96	228	64	29	330	420	432	474	534	570	591	604	612
PVX-6240T	2	27	12.01	305	6.60	168	8.93	227	65	29.5	390	492	510	558	624	672	696	710	720
PVX-6480T	2	31	12.90	328	6.75	171	8.96	228	67	30.5	408	516	528	582	648	708	732	746	756
PVX-6720T	2	GC2	10.28	261	7.06	179	9.92	252	70	31.8	429	540	555	612	672	738	768	780	789
PVX-7680T	2	31	12.90	328	6.75	171	8.96	228	75	34.0	474	600	618	678	768	834	864	876	894
PVX-9150T	2	GC2 Tall	10.28	261	7.06	179	12.94	329	94	42.6	570	735	810	840	915	1005	1044	1062	1074
PVX-12150HT	2	L16	11.64	296	6.95	177	15.73	399	124	56.2	798	1035	1080	1128	1215	1272	1302	1329	1344

### [Click to View Sun Xtender Battery Terminal Types](#)

**Standard Terminals:** All batteries with a "T" at the end of the part number incorporate M8 (copper alloy) threaded insert terminals except as follows: PVX-340T & PVX-420T are M6 and PVX-2120L & PVX-2580L are "L" Blade (solid copper) terminals. All batteries are supplied with silicon bronze bolts, nuts, and washers required for installation.



**Optional (Copper Alloy) Terminal Installed at the Factory:** Batteries with a "T" at the end of the part number (except PVX-340T & PVX-420T) are available with an optional factory installed "A" SAE automotive type terminal by adding the appropriate suffix to the end of the part number. For example, order PVX-1040TA instead of PVX-1040T.

**Optional (Copper Alloy) Terminal Kit:** Kits can be ordered for `After Factory` customer conversions of "T" type batteries (except PVX-340T & PVX-420T) by ordering P/N 6918 for the "A" SAE automotive post kit. Kit includes terminals and installation bolts required for installation.

**Terminal Torque Values:** [M6 use 35 in-lbs / 4.0 Nm] [M8 use 70 in-lbs / 7.9 Nm]

**Handles:** All batteries include built in lifting handles except the PVX-490T and PVX-560T.

**Ratings:** Capacity ratings are after 15 cycles and are stated at 77°F (25°C) to 1.75 volts per cell.

For more information, click on the battery part number in the table above or contact the factory. Never install batteries in a sealed compartment or container.

### **SUN-XTENDER™ BATTERY DESIGN FEATURES**

- Copper Alloy Terminals for improved electrical connections.
- No exposed lead terminals. This change was incorporated to improve environmental safety and health.
- Threaded insert terminals are recessed to prevent short circuits across battery connections.<sup>1</sup>
- New cover is flat top design. No protruding or exposed vent valves.<sup>1</sup>
- Built in lifting handles, except PVX-490T and PVX-560T.
- Reinforced container walls to reduce bulging.
- High Impact Strength Copolymer Polypropylene Case and Cover.
- Completely Sealed Valve Regulated Construction.
- Immobilized Electrolyte Non-Spillable.
- Maintenance Free Design Never Requires Watering.
- Absorbed Glass Mat (AGM) Micro-porous Glass Separators retain electrolyte.
- Flame Arresting Pressure Regulated Safety Valves.
- UL Recognized Systems Component.
- Positive Plates - Proprietary Lead Calcium Alloy- Negatives Plates - Lead Calcium.
- Low Self Discharge Rate Approximately 1 % per month at 25°C (77°F).
- Operate over a Wide Range of Temperatures from -40°C (-40°F) to +72°C (+160°F).
- Classified as "Non-Spillable Battery" for transport. Complies with DOT HMR49, Non-Hazardous Materials.



<sup>1</sup> Threaded Insert "T" type Features.

**Ratings:** Capacity ratings are after 15 cycles and are at 77°F (25°C) to 1.75 volts per cell.

**Drawings:** Click on the battery part number on the specification sheet above.

**Charging Instructions:** Initial charge or recharge - 2.37 to 2.40 volts per cell at 25° C (77° F). Float charge - 2.20 to 2.23 volts per cell at 25° C (77° F). Conditioning charge - 2.58 volts per cell at 25° C (77° F). Temperature compensation - 4.00 mV. per cell per degree C [Reference to 25° C (77° F)]. This is for battery temperature (not ambient temperature) and is useful for battery temperatures from 0° C to 40° C. Contact Concorde Battery Corporation for temperatures that exceed this range. Specifications subject to change without notice.



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Sun Xtender® Battery Produces the Highest Quality Solar Energy & Wind Power Batteries, Renewable Energy Storage Batteries, Deep Cycle Batteries, and AGM Batteries

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