



**SUN XTENDER BATTERIES**  
 A Division of Concorde Battery Corp.  
 2009 San Bernardino Road  
 West Covina, CA 91790  
 Tel. (626) 813-1234  
 Fax. (626) 813-1235



Company Info



**MAINTENANCE-FREE, VALVE-REGULATED,  
 SEALED LEAD ACID BATTERIES.  
 DESIGNED FOR DEEP CYCLE / BACK-UP POWER  
 PHOTOVOLTAIC APPLICATIONS.**

Part Number	Volts	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	120 Hour Rate
		in	mm	in	mm	in	mm										
<u>PVX-340T</u>	12	7.71	196	5.18	132	6.89	175	25	11.4	21	27	28	30	34	36	37	38
<u>PVX-420T</u>	12	7.71	196	5.18	132	8.05	204	30	13.6	26	33	34	36	42	43	43	45
<u>PVX-490T</u>	12	8.99	228	5.45	138	8.82	224	36	16.4	31	39	40	43	49	52	54	55
<u>PVX-560T</u>	12	8.99	228	5.45	138	8.82	224	40	18.2	36	45	46	49	56	60	62	63
<u>PVX-690T</u>	12	10.22	259	6.60	168	8.93	227	51	23.2	42	53	55	60	69	73	76	79
<u>PVX-840T</u>	12	10.22	259	6.60	168	8.93	227	57	25.9	52	66	68	74	84	90	94	97
<u>PVX-890T</u>	12	12.90	328	6.75	172	8.96	228	62	28.2	55	70	72	79	89	95	98	102
<u>PVX-1040HT</u>	12	13.12	333	6.60	168	8.93	227	66	30.0	65	82	85	93	104	112	116	120
<u>PVX-1040T</u>	12	12.00	304	6.60	168	8.93	227	66	30.0	65	82	85	93	104	112	116	120
<u>PVX-1080T</u>	12	12.90	328	6.75	172	8.96	228	70	31.8	68	86	88	97	108	118	122	126
<u>PVX-2120L</u>	12	20.76	527	8.70	221	9.76	247	138	62.7	136	172	176	194	212	235	244	253
<u>PVX-2580L</u>	12	20.76	527	10.89	277	9.77	248	165	75	165	209	214	236	258	285	295	305
<u>PVX-1030T</u>	6	10.21	259	6.60	167	8.92	226	42	19.1	65	82	85	93	103	112	116	120
<u>PVX-1380T</u>	6	10.21	259	6.60	167	8.92	226	51	23.2	84	106	110	120	138	146	151	158
<u>PVX-2240T</u>	6	10.28	261	7.06	179	10.0	254	67	30.4	143	180	185	204	224	246	256	263
<u>PVX-3050T</u>	6	10.28	261	7.06	179	13.02	330	91	41.3	190	205	270	280	305			
<u>PVX-5040T</u>	2	10.21	259	6.60	167	8.93	226	57	25.9	312	396	408	444	504	540	561	582
<u>PVX-5340T</u>	2	12.90	328	6.75	171	8.96	228	62	28.2	330	420	432	474	534	570	591	612
<u>PVX-6240T</u>	2	12.01	305	6.60	168	8.93	227	66	30.0	390	492	510	558	624	672	696	720
<u>PVX-6480T</u>	2	12.90	328	6.75	171	8.96	228	70	31.8	408	516	528	582	648	708	732	756
<u>PVX-6720T</u>	2	10.28	261	7.06	179	10.0	254	70	31.8	429	540	555	612	672			
<u>PVX-9150T</u>	2	10.28	261	7.06	179	13.02	330	94	42.6	570	615	810	840	915			

**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.

#### **CHARGING INSTRUCTIONS**

Initial charge or recharge: 2.37 to 2.40 volts per cell at 25°C (77°F). Float charge: 2.20 to 2.22 volts per cell at 25°C (77°F). Equalize charge: 2.40 volts per cell at 25°C (77°F). Temperature compensation = ±3.75 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 (32°F) to 40°C (104°F). Contact Concorde Battery Corporation for temperatures that exceed this range.



Specifications subject to change without notice.

The data/information contained in the Sun Xtender official website has been reviewed and approved for general release on the basis that these documents contain no export-controlled information.

**[Home Page](#) | [Sun Xtender Batteries](#) | [Battery Applications](#) | [Sun Xtender 2V / 6V / 12V Battery Series](#) | [Battery Distributors](#) | [MSDS](#) | [About Sun Xtender](#) | [Contact Sun Xtender](#) | [Solar Energy Sitemap](#) | [Press Releases](#) | [AS 9100 REV. B:2004 & ISO 9001:2000 \(pdf\)](#) | [Renewable Energy Directory](#) | [Employment Opportunities](#)**

All Rights Reserved. © 1996-2008  
Built by Broomfield Designers Hosted at Broomfield-Designers.com

Sun Xtender Battery Produces the Highest Quality Solar Batteries,  
Renewable Energy Storage Batteries, Photovoltaic Batteries, & AGM Batteries