



# 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

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	m	in	m	in	m												
<u>PVX-340T</u>	12	U1	7.71	196	5.18	132	6.89	175	25	11.4	21	27	28	30	34	36	37	37	38	
<u>PVX-420T</u>	12	U1 Tall	7.71	196	5.18	132	8.05	204	30	13.6	26	33	34	36	42	43	43	44	45	
<u>PVX-490T</u>	12	22NF	8.99	228	5.45	138	8.82	224	36	16.4	31	39	40	43	49	52	54	54	55	
<u>PVX-560T</u>	12	22NF	8.99	228	5.45	138	8.82	224	40	18.2	36	45	46	49	56	60	62	62	63	
<u>PVX-690T</u>	12	24	10.22	260	6.60	168	8.93	227	51	23.2	42	53	55	60	69	73	76	78	79	
<u>PVX-840T</u>	12	24	10.22	260	6.60	168	8.93	227	57	25.9	52	66	68	74	84	90	94	96	97	
<u>PVX-890T</u>	12	31	12.90	328	6.75	172	8.96	228	62	28.2	55	70	72	79	89	95	98	100	102	
<u>PVX-1040HT</u>	12	27	13.12	333	6.60	168	8.93	227	63	28.6	65	82	85	93	104	112	116	118	120	
<u>PVX-1040T</u>	12	27	12.01	305	6.60	168	8.93	227	63	28.6	65	82	85	93	104	112	116	118	120	
<u>PVX-1080T</u>	12	31	12.90	328	6.75	172	8.96	228	65	29.5	68	86	88	97	108	118	122	124	126	
<u>PVX-</u>	12	31	12.90	328	6.75	172	8.96	228	72	32	72	92	95	10	11	12	13	13	13	

<b>1180T</b>			90	8	5	1	6	8		.7				4	8	8	3	5	7
<b>PVX-1290T</b>	12	31	12.90	32.8	6.75	17.1	8.96	22.8	75	34.0	79	10.0	10.3	11.3	12.9	13.9	14.4	14.6	14.9
<b>PVX-1530T</b>	12	30H Tall	13.46	34.2	6.77	17.2	11.95	30.4	91	41.3	95	12.0	12.4	13.6	15.3	16.7	17.3	17.6	17.9
<b>PVX-2120L</b>	12	4D	20.76	52.7	8.70	22.1	9.77	24.8	12.7	57.6	13.6	17.2	17.6	19.4	21.2	23.5	24.4	25.0	25.3
<b>PVX-2580L</b>	12	8D	20.76	52.7	10.89	27.7	9.77	24.8	15.9	72.1	16.5	20.9	21.4	23.6	25.8	28.5	29.5	30.0	30.5
<b>PVX-1030T</b>	6	24	10.21	25.9	6.60	16.8	8.92	22.7	42	19.1	65	82	85	93	10.3	11.2	11.6	11.8	12.0
<b>PVX-1380T</b>	6	24	10.21	25.9	6.60	16.8	8.92	22.7	51	23.2	84	10.6	11.0	12.0	13.8	14.6	15.1	15.5	15.8
<b>PVX-2240T</b>	6	GC2	10.28	26.1	7.06	17.9	9.92	25.2	67	30.4	14.3	18.0	18.5	20.4	22.4	24.6	25.6	26.0	26.3
<b>PVX-3050T</b>	6	GC2 Tall	10.28	26.1	7.06	17.9	12.94	32.9	91	41.3	19.0	24.5	27.0	28.0	30.5	33.5	34.8	35.4	35.8
<b>PVX-2560T <sup>1</sup></b>	6	31	12.90	32.8	6.75	17.1	8.96	22.8	75	34.0	15.8	20.0	20.6	22.6	25.6	27.8	28.8	29.2	29.8
<b>PVX-4050HT</b>	6	L16	11.64	29.6	6.95	17.7	15.73	39.9	12.0	54.4	26.6	34.5	36.0	37.6	40.5	42.4	43.4	44.3	44.8
<b>PVX-5040T <sup>2</sup></b>	2	24	10.21	25.9	6.60	16.8	8.93	22.7	57	25.9	31.2	39.6	40.8	44.4	50.4	54.0	56.1	57.4	58.2
<b>PVX-5340T</b>	2	31	12.90	32.8	6.75	17.1	8.96	22.8	64	29	33.0	42.0	43.2	47.4	53.4	57.0	59.1	60.4	61.2
<b>PVX-6240T <sup>1</sup></b>	2	27	12.01	30.5	6.60	16.8	8.93	22.7	65	29.5	39.0	49.2	51.0	55.8	62.4	67.2	69.6	71.0	72.0
<b>PVX-6480T</b>	2	31	12.90	32.8	6.75	17.1	8.96	22.8	67	30.5	40.8	51.6	52.8	58.2	64.8	70.8	73.2	74.6	75.6
<b>PVX-6720T</b>	2	GC2	10.28	26.1	7.06	17.9	9.92	25.2	70	31.8	42.9	54.0	55.5	61.2	67.2	73.8	76.8	78.0	78.9
<b>PVX-7680T <sup>1</sup></b>	2	31	12.90	32.8	6.75	17.1	8.96	22.8	75	34.0	47.4	60.0	61.8	67.8	76.8	83.4	86.4	87.6	89.4
<b>PVX-9150T</b>	2	GC2 Tall	10.28	26.1	7.06	17.9	12.94	32.9	94	42.6	57.0	73.5	81.0	84.0	91.5	10.05	10.44	10.62	10.74
<b>PVX-12150HT</b>	2	L16	11.64	29.6	6.95	17.7	15.73	39.9	12.4	56.2	79.8	10.35	10.80	11.28	12.15	12.72	13.02	13.29	13.44

**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.