

Concorde has been supplying the Solar & Wind Industry for over 14 years, providing excellent performance and reliability. Applications include installations for telecommunications, village power, medical refrigeration, remote home, supervisory control & data acquisition, cathodic protection, telemetry, residential homes & offices, aids to navigation [sea & air], street lighting and many more uses.

### SUN~XTENDER®

The SUN~XTENDER® range of batteries from Concorde Battery Corporation have been developed for use in renewable energy (solar / wind) applications where long life, deep cycle, low internal resistance, superior charge acceptance and energy density are required.

In the SUN~XTENDER® Absorbent Glass Mat [AGM] battery technology, the electrolyte remains liquid and is absorbed [suspended] in a micro fibrous glass mat. Gel type batteries have a highly viscous [semi-solid] silica gel/electrolyte mixture. SUN~XTENDER® batteries outperform GEL batteries by reducing the time required for re-charging. This is the result of reduced electrolyte viscosity resulting in faster gas recombination.

By design, the SUN~XTENDER® produce less than 1% hydrogen gas under extreme overcharge conditions at elevated temperatures. For flammability a concentration of greater than 4.1% is required. As tested by the US military to MIL specification 8565J, hydrogen emissions were less than 30% of the maximum allowable limit, making them ideal for use in confined applications or equipment enclosures.

Additionally, the tightly packed plate construction provides a very high degree of shock and vibration resistance, making the product ideal for mobile applications.



### Features

- Copper Alloy Terminals for improved electrical connections.
- Threaded insert terminals are recessed to prevent short circuits across battery connections.<sup>2</sup>
- New cover is flat top design. No protruding or exposed vent valves.<sup>2</sup>
- Reinforced container walls to reduce bulging.
- High Impact Strength Copolymer Polypropylene Case and Cover.
- Completely Sealed Valve Regulated Construction.
- Non-Spillable Immobilized Electrolyte.
- Maintenance Free Design Never Requires Watering.
- Absorbent Glass Mat (AGM) Micro-fibrous Glass Separators retain electrolyte and allow the battery to be mounted on it's side without spilling.
- 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.

## Charging Instructions

**Initial Charge:** 2.37 to 2.40 volts per cell at 25°C (77°F).

**Float charge:** 2.23 volts per cell at 25°C (77°F).

**Equalize charge:** 2.40 volts per cell at 25°C (77°F) (if required, application dependant).

**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 BP Solar for temperatures that exceed this range.

## Standard Terminals

All batteries now incorporate copper alloy (brass) M8 for all but the PVX-340T which is M6 and the PVX2120L which incorporates L terminals as standard. All terminals are copper alloy for personal safety. No exposed lead.

All batteries supplied with brass bolts, nuts, and washers as required for installation.

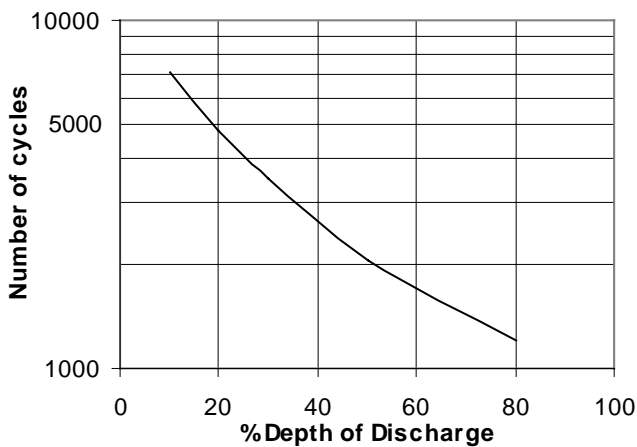
## Handles

All part numbers include lifting handles except the PVX-2240T.

## Warranty

BP Solar warrants these products 12 months from date of purchase See our website or you local representative For full terms of these warranties.

## Cycle Life <sup>3</sup>



## Notes

1. All information subject to change without notice.
2. Indicates T type feature terminals.
3. Cycle life tested to IEC specification 896-2

## Technical Specifications

Part Description	Volts	Overall Dimensions (mm)			Unit Wt kg	Capacity Ampere Hours							
		Length	Width	Height		1 Hr Rate	2 Hr Rate	4 Hr Rate	8 Hr Rate	24 Hr Rate	48 Hr Rate	72 Hr Rate	120 Hr Rate
PVX-2240T	6	261	181	260	30.4	143	180	185	204	224	246	256	263
PVX-2120L	12	528	222	266	62.7	136	172	176	194	212	235	244	253
PVX-1040T	12	306	172	227	30.0	65	82	85	93	104	112	116	120
PVX-890T	12	328	172	228	28.2	55	70	72	79	89	95	98	102
PVX-690T	12	260	172	277	23.2	42	53	55	60	69	73	76	79
PVX-340T	12	196	132	175	11.4	21	27	28	30	34	36	37	38



This publication summarizes product specifications and warranty. For details of construction, performance, and warranty, see our website [www.bpsolar.com](http://www.bpsolar.com) or contact your local representative. Specifications subject to change without notice.



BP Solar uses recycled and recyclable materials in its operation to the fullest extent.