



SUN-X-TENDER

**Maintenance-free, Valve-regulated, Sealed lead acid batteries.
Designed for deep cycle / back-up power photovoltaic applications.**



Standard Terminals: All "T" batteries now incorporate copper alloy M8 terminals except the PVX-340T & PVX-420T which are M6. All batteries supplied with silicon bronze bolts, nuts, and washers as required for installation. No exposed lead terminals. This change was made to improve environmental safety and health. Torque Value M6: 35 in-lbs / 4.0 nm. Torque Value M8:

70 in-lbs / 7.9 nm. Optional Terminals: L Blade or Automotive post type terminals are available installed by adding the appropriate suffix: "L" for L Blade or "A" for automotive post. Handles: All part numbers include lifting handles except the PVX-490T, PVX-560T, and PVX-2240T. Ratings: Capacity ratings are stated at 77F (25 C) to 1.75 volts per cell. Drawings: Click on the part number in the table above or contact the factory.

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.¹
- New cover is flat top design. No protruding or exposed vent valves.¹
- Built in lifting handles, except PVX-490T, PVX-560T, and PVX-2240T.
- 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.

¹Threaded 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 herein has been reviewed and approved for general release on the basis that this document contains no export-controlled information.