



Concorde Battery Corporation
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TECHNICAL BULLETIN

Subject: Electrolyte Content of SunXtender® Batteries

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All SunXtender® batteries offered by Concorde Battery Corporation are classified as Valve Regulated Lead Acid (VRLA) batteries. According to Section 608 of the International Fire Code (2006), spill containment is not required for VRLA batteries regardless of the size. However, for VRLA battery systems having an electrolyte capacity of more than 50 gallons, an approved method and material for neutralization of electrolyte spills must be provided. The method and material must be capable of neutralizing a spill of 3 percent of the electrolyte capacity of the largest VRLA cell or block in the room to a pH between 7.0 and 9.0.

The table shown on the second page of this Technical Bulletin provides the electrolyte content (gallons of electrolyte) of all SunXtender® battery models offered by Concorde Battery. These numbers may be used to calculate the total electrolyte volume for a given battery installation using the following formula:

$$\text{Total Electrolyte Volume} = \text{Electrolyte Volume per Battery} \times \text{No. Batteries}$$

Neutralization materials are available from various sources; see the following links for examples:

<http://www.acran.com/>

<http://www.egsintl.com/>

Note that there may be different state and local requirements depending on the exact location of the battery installation. It is the responsibility of the battery system provider to ensure that the battery installation complies with all applicable codes and regulations.

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Electrolyte Volumes of Sun Xtender® Series Batteries

Part Number	Gallons of Electrolyte*
PVX-340T	0.38
PVX-420T	0.46
PVX-490T	0.81
PVX-560T	0.64
PVX-690T	0.99
PVX-840T	0.92
PVX-890T	1.22
PVX-1030T	0.63
PVX-1040HT	1.11
PVX-1040T	1.11
PVX-1080T	1.26
PVX-1180T	1.38
PVX-1290T	1.50
PVX-1380T	0.63
PVX-1530T	1.88
PVX-2120L	2.19
PVX-2240T	1.35
PVX-2560T	1.50
PVX-2580L	2.52
PVX-3050T	1.87
PVX-4050HT	2.54
PVX-5040T	0.92
PVX-5340T	1.22
PVX-6240T	1.11
PVX-6480T	1.26
PVX-6720T	1.36
PVX-7680T	1.50
PVX-9150T	1.87
PVX-12150HT	2.54

*Specific gravity of electrolyte when battery is fully charged ranges from 1.28 to 1.36.

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