

Symmetra[®] PX



IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS

Extended Run (XR) **Battery Enclosure**

Empty 550 lb. (250 kg)

Figure 2

This guide contains important instructions for the XR Battery Enclosure that should be followed when handling Enclosures and batteries.



Risk of Electric Shock.



Indicates that a switch or current protection device is in the "ON" position.



Indicates that a switch is in the "OFF" position.

- Only trained persons familiar with the construction and operation of the equipment, and the electrical and mechanical hazards involved, may install and remove system components.
- The UPS and the XR Batttery Enclosure contain an internal energy source. Hazardous voltage can be present even when disconnected from the power source. Follow Total Power Off Procedure to completely de-energize system (Appendix B).
- Remove all conductive jewelry such as chains, watches, and rings before handling the Battery Units.
- Battery Units do not contain serviceable parts. Only authorized personnel may open Battery Units.
- Do not dispose Battery Units in a fire for they may explode. Do not mutilate Battery Units for released electrolyte may be toxic and is harmful to the skin and eyes.
- For configurations including customer-supplied external batteries, refer to manufacturer's battery installation and maintenance instructions.

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Do not lift heavy loads without assistance.	<40 lb.	40-70 lb.	70-120 lb.	>120 lb.
	<18 kg	18 - 32 kg	32 - 54 kg	>54 kg



Battery Module

4 x 50 lb. (4 x 23 kg)

Figure 3

Battery Unit

Battery

Module Bays



Address Switch

XR Battery Enclosure

10-40 kW **Extended Run (XR) Battery Enclosure Quick-Start & Basic Operation Guide**

Start-Up for XR Battery Enclosure(s) is included with your initial system installation. If an XR Battery Enclosure is being added to a pre-installed system, follow this guide.



Quick-Start & Basic Operation Guide / Symmetra® PX XR, 10-40kW 990-4145Arev1

Quick-Start & Basic Operation Guide / Symmetra® PX XR, 10-40kW 990-4145Arev1



Introduction

• This guide contains information on how to operate the XR Battery Enclosure. Refer to separate Basic Operation Guide for the UPS.

• The XR Battery Enclosure houses up to 32 Battery Units (8 Battery Modules).

XR Battery Enclosure Components







Battery Module Installation

WARNING!

Only trained persons familiar with the construction and operation of the equipment, and the electrical and mechanical hazards involved, may install and remove system components.

CAUTION!

Before installing any Battery Modules in the enclosure, ensure that the electrician has left the DC Disconnect in the OFF position (if not, see Appendix B).

Set DC Disconnect Switches in EACH XR Battery Enclosure to the OFF position. Remove Plate. Set the Ð 2 XR Enclosure Address Address of EACH XR Battery Enclosure in the configuration. æ XR Enclosure #1 Set to 1 XR Enclosure #2 Set to 2 Figure 7 XR Enclosure #3 Set to 3 ക XR Enclosure #4 Set to 4

Do not install Battery Units in the XR Battery Enclosure until you are ready to power up the system. Failure to do so can result in deep discharge of the batteries and cause permanent damage.





in the lowest available bay, 4 Unit to slide in between the

grooves and push completely into the enclosure to ensure connection.







Enclosure Ad









Securing the Enclosure

Secure the Enclosure by setting the Stabilizing Feet

After the electrical wiring has been completed, secure the enclosure in its final operating position. Use a 14-mm wrench (shipped with enclosure) to adjust all 4 stabilizing feet until pads make solid contact with the floor.

Level the Enclosure (Optional)

Adjust stabilizing feet to level from front to back and left to right.



CAUTION!

Do not move the enclosure after the stabilizing feet have been lowered as the feet may bend.



Figure 6



Quick-Start & Basic Operation Guide / Symmetra® PX XR, 10-40kW 990-4145Arev1



System Start-Up Procedure

The UPS is assumed to be powered and operating during this Start-up procedure; if not, power up the UPS now.

Check that each XR Battery Enclosure is set to a different enclosure address in each Battery Monitor Card as illustrated below. If not, remove all batteries to disconnect line, and follow procedure in Section 5.

A "no good batteries" fault will occur until at least one battery module is reinserted.







7_{Reversing the Door (if required)}









Modular Component Replacement



Basic Troubleshooting

Tech Support

0800 296480

0800 15063

0800 102063

800 18153

9800 13374

0800 906483

0800 1801227

0640 200262

1800 702000

1800 9452206

0800 022 4655

precautions should be observed when working on batteries:

Remove watches, rings or other metal objects

Do not lay tools or metal parts on top of batteries

800 874731

0800 2091

WARNING!

Use tools with insulated handles

Wear rubber gloves and boots

00800 35312206

Appendix B: Total Power OFF Procedure

This Basic Troubleshooting section will allow you to solve most problems. If the problem persists, note the UPS/XR # and serial # before calling Tech Support at below applicable numbers.

Display Message	Meaning	Corrective Action
The battery monitory board LEDs do not light up or Power- View displays inaccurate number of XR Battery Enclosures.	The XR Battery Enclosure(s) are not recognized.	Check that the Communications cable(s) are connected, and that the XR Selector Switch(s) are in the correct position.
PowerView displays inaccurate number of batteries.	Unrecognized batteries in your configuration.	Insure that all batteries are correctly installed. (Section 5)
PowerView displays a bad battery unit.	A failed battery has been detected.	Refer to Section 8, Replacing Battery Units.

Country

Norway

Poland

Portugal

South Africa

Switzerland

USA & North America

Other Countries

Russia

Spain

Sweden

Turkev

UK

Fax

A battery can present a risk of electric shock and high short-circuit current. The following

When replacing batteries, replace with same number and type as installed. For customer-

supplied external batteries, see manufacturer's installation and safety instructions.

eSupport

Figure 20

Tech Support

800 11632

0801 345917

800 853182 095 9167166

011 4652583

900 953533

020 795419

080055 6177

0800 2113305

0800 132990

1 (800) 800 4272

http://esupport.apcc.com

Figure 21

353 91 702055

353 91 755275

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6







2nd Figure 17

3rd

Display will indicate location of faulty Battery Units (levels 1-8).

Battery Removal

8

Replacing Battery Units

- When removing Battery Units, start from the highest level and work down.
- Holding the handle, gently push the battery upwards and pull it halfway out of the enclosure. A lock mechanism prevents it from being pulled all the way out. To release it from the lock mechanism, gently push the battery upwards again and pull it out, supporting the battery with the other hand.

Battery Installation

- To reinstall the Battery Unit, position it to slide in between the 2 grooves and push the unit all the way into the enclosure.
- Check that the display shows message saying the installation has been registered.

Replacing Cards

- Using a Phillips head screwdriver, remove the two screws.
- Gently pull to slide out



Replacement Parts and Numbers					
Battery Module	SYBT4	Battery Monitoring Card	SYCBTMON		
Battery Unit	SYBTU1	XR Communication Card	SYCXRCOM		
System Power Supply Card	SYCSPS				
			Figure 19		

Country

Austria

Belgium

Denmark

Finland

France

Germany

Greece

Hungary

Ireland

Luxemburg

Netherlands

Israel

Italy

Czech Republic





CAUTION!

o ensure solid stability, do not pull Battery Units ut beyond the Red Disconnect Line unless comletely removing them from the enclosure.

XR Battery Enclosure