

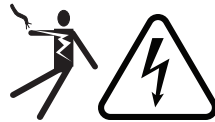
## UL 9540 ESS Information for Discover

**Note:** The Schneider Electric XW Pro inverter is included as part of multiple energy storage systems (ESS) solutions, certified to UL 9540 by various battery manufacturers. The scope of this document is only ESS solutions with Discover Battery that have been certified to UL 9540 by Schneider Electric. Similar documentation may be available from battery manufacturers who have certified an ESS with the XW Pro inverter.

### Important Safety Information

This document contains important safety instructions that must be followed during installation procedures (if applicable). Read and keep this document for future reference.

Read these instructions carefully and look at the equipment to become familiar with the device before trying to install, operate, service or maintain it. The following special messages may appear throughout this documentation or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.



The addition of either symbol to a “Danger” or “Warning” safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

#### **DANGER**

**DANGER** indicates a hazardous situation which, if not avoided, **will result in** death or serious injury.

#### **WARNING**

**WARNING** indicates a hazardous situation which, if not avoided, **could result in** death or serious injury.

#### **CAUTION**

**CAUTION** indicates a hazardous situation which, if not avoided, **could result in** minor or moderate injury.

**NOTICE**

**NOTICE** is used to address practices not related to physical injury.

**⚠️ ⚠️ DANGER****HAZARD OF ELECTRIC SHOCK, EXPLOSION, ARC FLASH, AND FIRE**

This document is in addition to, and incorporates by reference, the relevant product manuals for XW Pro inverter/chargers and connected batteries. Before reviewing this document, you must read the relevant product manuals. Unless specified, information on safety, specifications, installation and operation is as shown in the primary documentation received with the product. Ensure you are familiar with that information before proceeding.

**Failure to follow these instructions will result in death or serious injury.**

**Overview**

This document lists energy storage systems certified by Schneider Electric to ANSI/CAN/UL-9540:2016 Energy Storage Systems and Equipment standard and guides customers on their application. The systems covered in this document consist of the XW Pro inverter, compatible Discover Li-ion batteries and supplementary equipment, as defined.

Refer to:

- XW Pro Installation Guide (document number 990-91228 or 990-91403)
- XW Pro Operation Guide (document number 990-91227 or 990-91402)
- Conext Gateway documentation
- Customer documentation for the recommended batteries

**⚠️ CAUTION****BATTERY TYPE HAZARD**

Ensure that the battery pack being used includes a compatible Battery Management System (BMS) with safety controls. Batteries with a compatible BMS for closed loop communication are listed in *Supported System Architectures and Configurations on page 4*.

**Failure to follow these instructions can result in injury or equipment damage.**

**⚠️ CAUTION****SPECIFIC ENVIRONMENT HAZARD**

- The system was intended for residential use without arc flash risk considered; a salt mist test should be considered when the ESS is installed outdoor near marine areas.
- Seismic testing should be considered for ESS installations where seismic activity applies.

**Failure to follow these instructions can result in injury or equipment damage.**

## ***NOTICE***

### **RISK OF EQUIPMENT DAMAGE**

Before selecting a battery pack to use with the XW Pro inverter, MPPTs, or the accessories, be sure that the battery pack has been thoroughly tested by the battery manufacturer for safe operation for its intended application and is compatible with all Conext products. For questions or adjustments to the battery settings, contact the battery manufacturer.

**Failure to follow these instructions can result in equipment damage.**

# Supported System Architectures and Configurations

The following diagrams depict UL 9540-certified systems with XW Pro inverters. The scope of certification includes the equipment and its interaction within the energy storage system (ESS) boundary. BMS communication with InsightHome or InsightFacility is optional. The system must be equipped with adequately-rated DC and AC breakers and/or equivalent as applicable by local codes and regulations.

Equipment combinations and associated power and energy nominal ratings are given in *Table 1*.

Figure 1 UL 9540 certified system without external contactor

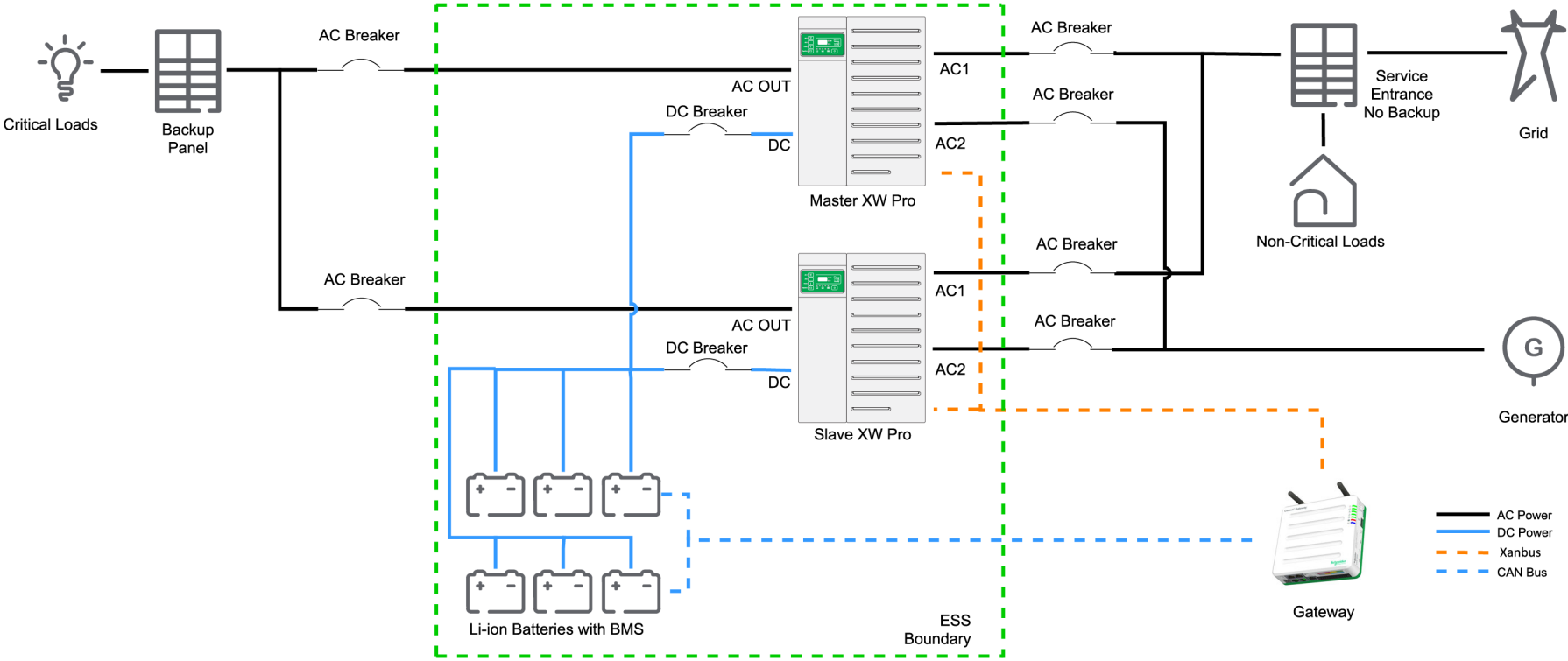


Figure 2 UL 9540 certified system with external contactor

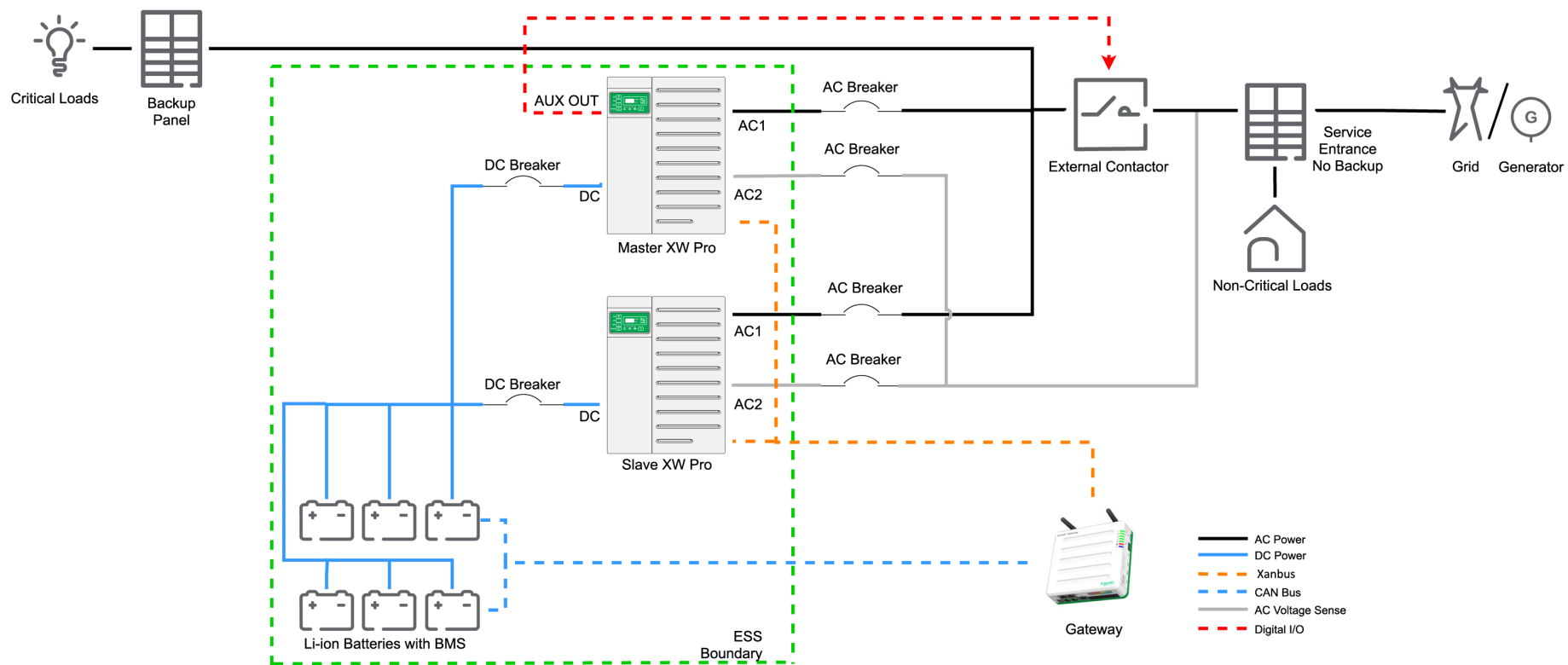


Table 1 List of UL 9540-certified combinations of equipment and their ratings

Inverter	Inverter Qty.	Battery	Battery Qty.	DC Breakers(s) <sup>1</sup>	DC Breaker Qty.	Max. Continuous AC Power	Energy Capacity
XW Pro 6848 NA	1	Discover AES 42-48 6650	1	865-DCBRK-250	1	4.2 kW	6.65 kWh
XW Pro 6848 NA	1	Discover AES 42-48 6650	2	865-DCBRK-250	1	6.8 kW	13.3 kWh
XW Pro 6848 NA	1	Discover AES 42-48 6650	3	865-DCBRK-250	1	6.8 kW	20 kWh
XW Pro 6848 NA	2	Discover AES 42-48 6650	2	865-DCBRK-250	2	8.4 kW	13.3 kWh
XW Pro 6848 NA	2	Discover AES 42-48 6650	3	865-DCBRK-250	2	12.6 kW	20 kWh
XW Pro 6848 NA	1	Discover AES 44-48 3000	2	865-DCBRK-250	1	3.6 kW	6 kWh
XW Pro 6848 NA	1	Discover AES 44-48 3000	3	865-DCBRK-250	1	5.4 kW	9 kWh
XW Pro 6848 NA	1	Discover AES 44-48 3000	4	865-DCBRK-250	1	6.8 kW	12 kWh
XW Pro 6848 NA	1	Discover AES 44-48 3000	5	865-DCBRK-250	1	6.8 kW	15 kWh
XW Pro 6848 NA	1	Discover AES 44-48 3000	6	865-DCBRK-250	1	6.8 kW	18 kWh
XW Pro 6848 NA	2	Discover AES 44-48 3000	5	865-DCBRK-250	2	9 kW	15 kWh
XW Pro 6848 NA	2	Discover AES 44-48 3000	6	865-DCBRK-250	2	10.8 kW	18 kWh

<sup>1</sup> The 250 A DC Breaker part number 865-DCBRK-250 is also included with the XW Mini PDP, XW PDP, and XW Connection Kit.

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### **Contact Information**

For country-specific details, please contact your local Schneider Electric Sales Representative or visit the Schneider Electric Solar Business website at: <https://solar.se.com/>