

Schneider Electric 865-6848-21

Schneider Electric Conext XW Pro Solar Hybrid Inverter/Charger 865-6848-21 User Manual

Model: 865-6848-21

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Schneider Electric Conext XW Pro Solar Hybrid Inverter/Charger. The Conext XW Pro is designed for 120/240V split phase systems and supports both DC coupled and AC coupled off-grid and grid-tie architectures. It is scalable up to four inverters, providing up to 34 kW of power.

Please read this manual thoroughly before attempting any installation or operation of the device. Keep this manual for future reference.

2. SAFETY INFORMATION

WARNING: Risk of Electric Shock and Fire. Improper installation or operation can result in serious injury or death. Only qualified personnel should perform installation and maintenance procedures.

- Always disconnect all power sources (AC and DC) before servicing the inverter/charger.
- Verify that the voltage and current ratings of all connected equipment are compatible with the Conext XW Pro.
- Ensure proper grounding of the inverter/charger as per local electrical codes.
- Do not operate the inverter/charger if it has been damaged or appears to be malfunctioning.
- Keep children away from the equipment.
- Install in a well-ventilated area, away from flammable materials.

3. SETUP

3.1 Unpacking and Inspection

Carefully unpack the Conext XW Pro unit and inspect it for any signs of shipping damage. Report any damage to your supplier immediately. Verify that all components listed in the packing list are present.

3.2 Mounting

Select a suitable mounting location that is dry, well-ventilated, and protected from direct sunlight, moisture, and

extreme temperatures. The unit should be mounted vertically on a sturdy, non-flammable surface capable of supporting its weight (approximately 169 pounds). Ensure adequate clearance around the unit for proper airflow and heat dissipation.



Figure 1: Front view of the Schneider Electric Conext XW Pro Solar Hybrid Inverter/Charger. This image shows the compact design of the unit, highlighting its robust casing and connection points, essential for understanding its physical integration into a solar power system.

3.3 Wiring

All wiring must be performed by a licensed electrician in accordance with all applicable national and local electrical codes. This includes DC input from solar arrays or batteries, AC input from the grid or generator, and AC output to loads.

- **DC Wiring:** Connect DC input from batteries or charge controllers. Ensure correct polarity. The Conext XW Pro supports charging of Lithium Ion battery packs.
- **AC Wiring:** Connect AC input from the utility grid or a generator, and AC output to your electrical panel.
- **Grounding:** Establish a proper earth ground connection for safety.

4. OPERATING

4.1 Initial Power-Up

1. Before applying power, double-check all wiring connections for correctness and security.
2. Close the DC disconnect switch to apply battery power to the inverter/charger.
3. Close the AC input and output breakers.
4. Observe the indicator lights on the unit. Refer to the status indicator section in the full manual for detailed explanations.

4.2 Modes of Operation

The Conext XW Pro can operate in various modes, including:

- **Grid-Tie with Battery Backup:** Utilizes solar power, stores excess in batteries, and can export to the grid. Provides backup power during outages.
- **Off-Grid:** Operates independently from the utility grid, relying solely on solar and battery power.
- **Self-Consumption:** Prioritizes using generated solar power for local loads and battery charging before exporting to the grid.

4.3 Monitoring

The system can be monitored using compatible Schneider Electric devices, such as the InsightHome. This allows for remote monitoring of system status, performance, and configuration via computer or smartphone.

5. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your Conext XW Pro inverter/charger.

- **Periodic Inspection:** Annually inspect the unit for dust accumulation, loose connections, or signs of corrosion.
- **Cleaning:** Keep ventilation openings clear of obstructions. Use a soft, dry cloth to clean the exterior. Do not use liquid cleaners.
- **Battery Maintenance:** Follow the manufacturer's guidelines for your specific battery type (e.g., Lithium Ion) to ensure proper charging and discharge cycles.

6. TROUBLESHOOTING

This section provides basic troubleshooting steps for common issues. For complex problems, contact qualified service personnel.

- **No Power Output:** Check AC input and output breakers, DC disconnect, and battery connections. Verify battery voltage.
- **Fault Indicator On:** Note the specific fault code or indicator pattern and consult the detailed troubleshooting section in the complete product manual.
- **System Not Charging Batteries:** Check solar array connections, charge controller status, and battery health.

If issues persist after performing basic troubleshooting, contact Schneider Electric customer support or a certified service technician.

7. SPECIFICATIONS

Feature	Specification
Model Number	865-6848-21
Voltage	120/240V Split Phase
Scalability	Up to 4 inverters (34 kW)
Product Dimensions	28 x 16 x 23 inches
Item Weight	169 pounds
Battery Compatibility	Supports Lithium Ion battery packs

Manufacturer	Zonna (for this specific unit)
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8. WARRANTY AND SUPPORT

The Schneider Electric Conext XW Pro typically comes with a manufacturer's warranty. Please refer to your purchase documentation for the exact warranty period and terms. Historically, warranty periods have been around 5 years.

For technical support, service, or warranty claims, please contact Schneider Electric customer service directly. It is recommended to register your product upon purchase to facilitate support processes.

While Schneider Electric provides robust support during the warranty period, availability of repair services or parts for units outside of warranty may vary. It is advisable to inquire about long-term service options when making your purchase decision.

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