Get a 10 Year Warranty! Register your CL-60A

**Warranty without registering**
- 5 Years Product Warranty

**Warranty Activated AFTER registering**
- + 5 Years Additional Promotional Warranty

**= 10 Year Warranty**

To redeem the additional promotional warranty option, inverters have to be registered.

For more information or to download the my Schneider app, go to [http://solar.schneider-electric.com/product-registration/](http://solar.schneider-electric.com/product-registration/)

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**Schneider Electric Product Registration**

One Easy Step / Multiple Methods

Register today in one easy step to receive additional warranty and valuable benefits!

Select your Method

- Scan
- Visit
- Call

**Register within 6 months of purchase and redeem additional warranty**

**Receive your Warranty Certificate**

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**Important Safety Information**

This Guide is intended for any qualified personnel who need to install, operate, configure, and troubleshoot the Conext CL-60A. Qualified personnel must be protected by qualified persons in consultation with your local utility and/or authorized dealer. Qualified personnel must be trained, supervised, and maintained only by qualified personnel. Qualified personnel must be familiar with all specifications, instructions, and warnings.

1. Read these instructions carefully and look at the equipment to become familiar with the device before trying to install, operate, service or maintain the equipment. This guide contains important safety instructions for the Conext CL-60A that must be followed during installation procedures. Read and keep this Quick Install Guide for future reference.

2. This Guide is intended for any qualified personnel who need to install, operate, configure, and troubleshoot the Conext CL-60A. Certain configuration tasks should only be performed by qualified personnel in consultation with your local utility and/or an authorized dealer.

3. Do not open nor disassemble the top half of the unit. There are no user-serviceable parts inside.

4. To avoid a risk of fire and electric shock, make sure that existing wiring is in good condition and that wire is not undersized. Do not operate the equipment with damaged wiring.

5. Do not operate the equipment if it has been damaged in any way.

6. Do not disassemble the Conext CL-60A except where noted for connecting wiring and cabling. See your warranty for instructions on obtaining the equipment label. Do not leave tools inside.

7. To reduce the risk of electrical shock, disconnect the power supply from the equipment before attempting installation, and any maintenance or repair activities shall only be performed by qualified personnel.

8. Do not disconnect the Conext CL-60A except where noted for connecting wiring and cabling. Leave your warranty for instructions on obtaining the equipment label.

9. Always use insulated tools when installing or working with this equipment. Do not leave tools inside.

10. To reduce the chance of short-circuits, always use insulated tools when installing or working with this equipment. Do not leave tools inside.

11. To avoid a risk of fire and electric shock, always use insulated tools when installing or working with this equipment. Do not leave tools inside.

12. Do not touch the top half of the unit. There are no user-serviceable parts inside.

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**Contact Information**

Please contact your local Schneider Electric Sales Representative or visit the Schneider Electric website at:

[solar.schneider-electric.com/tech-support](http://solar.schneider-electric.com/tech-support)
Conext CL-60A (also referred to as CL-60A PV Inverter) is a transformerless three-phase photovoltaic (PV) string inverter that is designed to be an integral part of any utility grid-connected PV Power System. The Conext CL-60A is designed to convert DC power generated from the PV array into AC power that is compatible with utility grade AC power.

**Features**

- CL-60A unit
- Wall-mounting backplate
- Metal frame fasteners
- DC connectors (3 pairs)
- 2" trade size conduit knockout for AC side
- LCD display with status LED and buttons
- USB stick, Quick Install Guide and Labels
- CAT6/5/e network cable for Modbus/RS-485 PV Inverter and Ethernet TCP/IP connections

**Mounting Considerations**

- For broken surfaces and concrete:
  - Paint the backplate with a non-flammable wall primer before attaching and mark the wall for communication.
- For metal or concrete:
  - Attach brackets with screw-in handles.

**Installation (Mounting)**

**NOTE**

- Obtain all necessary permits prior to starting the installation. Installations must meet all local codes and standards. Installation of this equipment should only be performed by qualified personnel. Always follow the conduit installation instructions.

**HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

- Do not connect the PV Inverter to a live power source prior to cabling and wiring. The inverter can be energized by two sources: DC from the PV array and AC from the grid.
- Do not connect any powered device to the PV Inverter during installation.

**CAUTION**

- The DC conductors of this photovoltaic system are ungrounded and may be energized.
- Replace all devices and covers before turning on power to this equipment.
- Always use a properly rated voltage sensing device to confirm all circuits are de-energized.
- The inverter is energized from multiple sources. Before removing covers identify all sources, de-energize, lock-out and tag-out, and wait 10 minutes.
- Do not open fuse holders under load. The fuse must be de-energized from all sources before servicing.

**NOTE**

- For full details on unit installation which includes metal frame installation, alternative lifting mechanisms, and multiple unit guidelines, see the full Owner's Guide available on the USB stick that came with the box.

**Installation (Wiring)**

**AC Side Cable Connection**

- For more information see the Owner’s Guide
- AC crimp pin
- • CRIMPING TOOL FOR AMPHENOL® H4 DC INPUT TERMINALS (https://www.amphenol.com/)
- • CAT6/5/e network cable for Modbus/RS-485 PV Inverter and Ethernet TCP/IP connections
- • Wire stripper, standard molex crimper, AC/DC crimp pins
- • Screwdriver and drill set (powered and/or manual)
- • Calibrated professional digital multimeter
- • Crimping tool for Amphenol® (https://www.amphenol.com/)

**NOTE**

- For torque specifications, follow the conduit hub manufacturer’s recommendation.
- All trademarks are owned by Schneider Electric Industries SAS or its affiliated companies.
**DC Side Cable Connection** - for more information see the Owner’s Guide

**ELECTRIC SHOCK HAZARD**
- Be careful when handling cables from PV arrays. PV arrays produce electrical energy when exposed to light.
- Check that the PV impedance to ground is within specifications before connecting the PV array to the inverter.

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

1. **Strip**
2. **Separate connections**
3. **Remove cable glands and matching pins**
4. **Crimp**
5. **Thread cable through glands**
6. **Insert contact into insulator**
7. **Attach cable glands**
8. **Turn OFF DC switch**

See steps below.

**Communication Cable Connection** - for more information see the Owner’s Guide

**RS-485 Connection (2 connection types)**

1. **Install a NEMA 4/4X-rated conduit hub**
2. **Thread an RS-485 cable through the hub and strip the wires**
3. **Connect each wire to the connector terminals**
4. **Attach the RJ45 plug to the Ethernet terminal**

**Ethernet Connection**

1. **Install a NEMA 4/4X-rated conduit hub**
2. **Thread a standard CAT6/5e Ethernet cable through the hub**
3. **Attach the RJ45 plug to the Ethernet terminal**

**Ethernet Communication**

Use one of both knockouts to install a NEMA 4/4X-rated conduit hub.

NOTE: Use a spanner, if available, to tighten the cable glands to the insulator.

**Ground Connection** - for more information see the Owner’s Guide

1. **Strip**
2. **Separate connections**
3. **Remove cable glands and matching pins**
4. **Crimp**
5. **Thread cable through glands**
6. **Insert contact into insulator**
7. **Attach cable glands**
8. **Turn OFF DC switch**

See steps below.

**Inspection Before Commissioning**

- CL-60A accessible?
- CL-60A stable and secure on the wall?
- Ventilation - CL-60A free of obstructions?
- No tools left on and inside CL-60A?
- Cable connections tight and secure?
- AC and DC circuit breakers are connected to CL-60A?
- Unused terminals are sealed?
- Permanently affixed product rating and warning labels?
**NOTE:** If there is enough sunlight and the PV array initializes, the screen (Country Code) appears then the Countries observe the LCD display for the splash screen, warning screen, and close (turn On) AC Breaker.

Each country code is pre-programmed with its country's local protective parameters, in compliance with local utility grid requirements. If one of the highlighted country codes below is selected, an additional main screen will display some activity on the main screen.

### Commissioning

1. Close (turn On) AC Breaker
2. Close (turn On) DC Disconnect
3. Turn ON DC switch

### Grid Code

- CA
- US
- CA_HAW
- Other

### Country Code

- CA
- US
- CA_HAW
- Other

### Grid Code

- AC
- Other

### Torque Values

<table>
<thead>
<tr>
<th>Description</th>
<th>Torque (in-lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connector Screw (wall)</td>
<td>1.0 ±0.1</td>
</tr>
<tr>
<td>Connector Screw (metal)</td>
<td>1.5 ±0.1</td>
</tr>
<tr>
<td>Connector Screw (fastener)</td>
<td>2.5 ±0.1</td>
</tr>
<tr>
<td>Connector Screw (transparent)</td>
<td>2.8 ±0.1</td>
</tr>
<tr>
<td>G3 Cable Gland (for smaller AC cable)</td>
<td>5.9–8.9</td>
</tr>
<tr>
<td>G3 Cable Gland (for larger AC cable)</td>
<td>11.8–12.5</td>
</tr>
</tbody>
</table>

**Firmware Upgrade Using CL EasyConfig Tool**

NOTE: See the Conext CL-60A EasyConfig Tool Owner's Guide (document number 975-0732-01-05) for full instructions including illustrations.

This guide for use only by qualified personnel.