Conext™ CL Inverter 20000E/ 25000E - Quick Start Guide

A. Important Safety Information

1. Before using the Conext CL Inverter, read all instructions and cautionary markings on the unit and all procedures. Read and keep this Quick Start Guide for future reference.

2. Use of accessories not recommended or sold by the manufacturer may result in a risk of fire, electric shock, or injury.

3. The inverter is designed to be permanently connected to your AC and DC electrical systems. The manufacturer recommends that all work be done by a certified technician or electrician to ensure adherence to the local and national electrical codes applicable in your jurisdiction.

4. Do not operate the inverter if it is damaged in any way.

5. The inverter does not have any user-serviceable parts. Do not disassemble the inverter except where noted for connecting wiring and cabling. See your warranty for instructions on obtaining service. Attempting to service the unit yourself may result in a risk of electrical shock or fire. Internal capacitors remain charged after all power is disconnected.

6. To reduce the risk of electrical shock, isolate both the AC and the DC power from the inverter before attempting any maintenance or cleaning or working on any components connected to the inverter. Putting the unit in the standby mode will not reduce this risk.

7. The inverter must be provided with an equipment-grounding conductor connecting the AC input ground point.

8. The Conext CL Inverter is energized from two sources: PV array while exposed to sunlight and AC grid. Before opening the cover for servicing, check the system diagram to identify all the sources, de-energize, lock-out and tag-out, and wait at least five minutes for the internal capacitors to discharge to safe voltages.

9. The Conext CL Inverter employs field adjustable voltage and frequency set points and time delays that are factory set in compliance with local utility and safety requirements. This can be changed only by qualified personnel with approval by both the local utility and equipment owner.

10. Remove personal metal items such as rings, bracelets, necklaces, and watches when working with electrical equipment and circuits.

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

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

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

NOTICE

NOTICE is used to address practices not related to physical injury. The safety alert symbol shall not be used with this signal word.

The addition of either 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.

Read and Save These Instructions - Do Not Discard

This guide contains important safety instructions for the Conext CL Inverter that must be followed during installation procedures. Read and keep this Quick Start Guide 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 bulletin or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.

B. Location of Important Physical Features (Optimum plus)

LCD display

Wiring box

Communication cable gland

DC disconnect switch

Louver

Hand or mm

C. Materials List

D. Torque Table

E. Tools Required

F. Wiring Box Configuration - Optimum plus

G. Materials List

1. AC terminal block
2. DC fuse holders
3. MPPT shorting terminal
4. DC disconnect switch
5. DC SPD-Surge protection device
6. AC SPD-Surge protection device

Refer manual for all other model configurations.
**G Correct Installation Distances, Mounting Positions, Dimensions**

- **Distance (max):**
  - DC: 1000 VDC, 40 A/MPPT
  - AC: 400 V, 33 A (25 KVA)

**H Mounting Sequence**

1. Mounting the wiring box bracket
2. Mounting the Inverter bracket
3. Opening the front cover of the wiring box
4. Anchoring the connector cover
5. Locking the inverter to the wiring box
6. Inverter assembly-side view
7. Closing the wiring box

**I Communication module**

- **Data format for RS485 connection**
  - Function: DATA-
  - Parameter: Baud rate
  - Value: 19200 (default), 9600, 38400, 57600, 115200

**J Wiring**

- **PV input PV connector**
  - Communication: [h] M5S cable gland
  - [h] RJ45 Ethernet
  - [h] Dry contact
  - [h] RPO connector

- **AC output:** [h] M5S cable gland

**K Commissioning**

- **Start up procedure:**
  1. Ensure that the DC and AC breaker are turned OFF.
  2. Complete the wiring as per the instructions in the Installation and Operation Manual.
  3. DC wiring
  4. Communication Interface
  5. Check the polarity of the DC wires and ensure that the maximum DC voltage is not more than 1000 V.
  6. Ensure to place the string protection fuses.* if less than 2x strings are used per MPPT, as fusing may not be needed for more details and ordering the spare parts, refer manual.

- **First Time Power Up Screen**

- **Configuration**
  - Apply settings

- **Date & Time**
  - Select Time Zone
  - Select W- box 6/11
  - Confirm Country
  - Language 1/11
  - ESC to cancel

- **Language 2/11**
  - ESC to cancel

- **Date & Time 5/11**
  - Press OK to confirm,

- **Done**

- **Set MPPT 8/11**
  - Press OK to confirm,