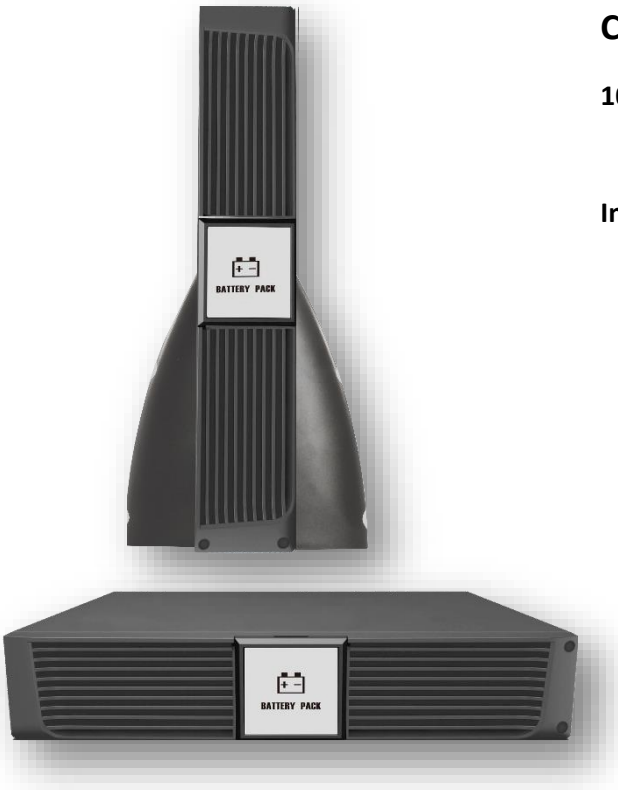
External Battery Pack



C300R

1000-3000VA

Installation/Manual

CertaUPS

Additional battery connection

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1. Introduction

This manual has been written for the intention of aiding the owner of a Certa C300R in connecting External Battery Modules (EBMs) to their UPS. This guide provides easy to follow, step by step instructions so that the user can connect battery modules to their UPS at any date with ease, after receiving the system. This manual contains instructions for both singular and multiple additions to be made to the number of battery modules connected to the UPS device, with separate sections for both Tower and Rackmount configuration.

Tower configuration will require that the reader has kept the extended UPS stands which will have been sent with the UPS. Please ensure that prior to the installation of any EBMs that the protected equipment has been disconnected from the UPS and that the UPS has been powered down. This is advised as it will reduce the chance of electrical shock and will also prevent any damage from potentially being caused to the protected equipment whilst work is carried out on the UPS device.

If connecting EBMs into a Rackmount system check that you have the required available space before commencing the work. The EBMs require 2U Rack space for each unit that is being connected to your UPS.

The instructions will follow from the next page. Both images and typed instructions are given to ease the process for the UPS owner. The first instructions describe how to connect a single EBM in both Tower configuration and then Rackmount configuration. This is then followed by the instructions for connecting multiple EBMs in both configurable formats. Refer to the contents page to determine the page number for the instructions that best apply to your scenario.

2. Connecting a single EBM

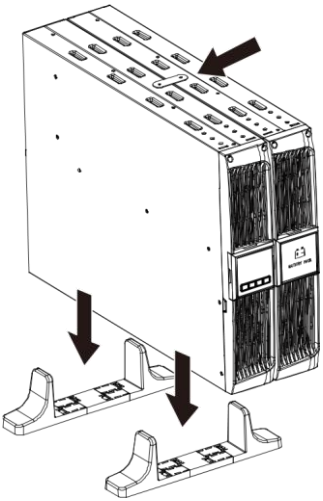
2.1 Connecting the EBM in Tower Configuration:

In order to configure one or more EBMs with the UPS in tower configuration the UPS owner will need the extended UPS stands that were sent with the UPS.

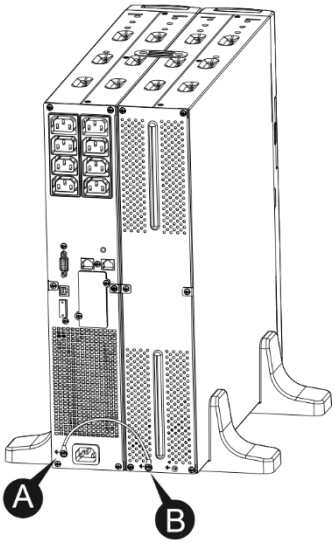
Please Note: Remember to disconnect the protected equipment and power down the UPS before installing any EBMs this will prevent damage to the equipment and reduce the chance of electrical shock.

1. Firstly position the UPS and EBM within the extended UPS stands then slide the stands to either end of the tower. This will prevent the UPS from falling to either side.

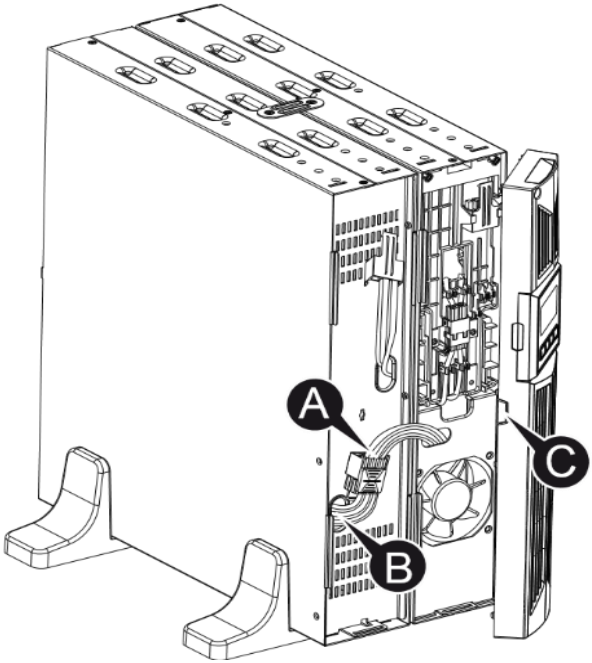
2. Next, tighten the screw on the UPS cover for stabilisation and to make the configuration secure.



3. Connect an Earth line from the UPS (port A) to the EBM (port B).



4. Take off the front panel. To do this remove the 2 top screws from the front of the UPS and carefully take out the LCD screen and remove the screw that's behind it. Finally push inward the small gate on the side of the front panel in order to remove it. This then enables you to connect battery terminal (A) from the UPS to the EBM terminal (B) shown below. After doing this reassemble the front panel.



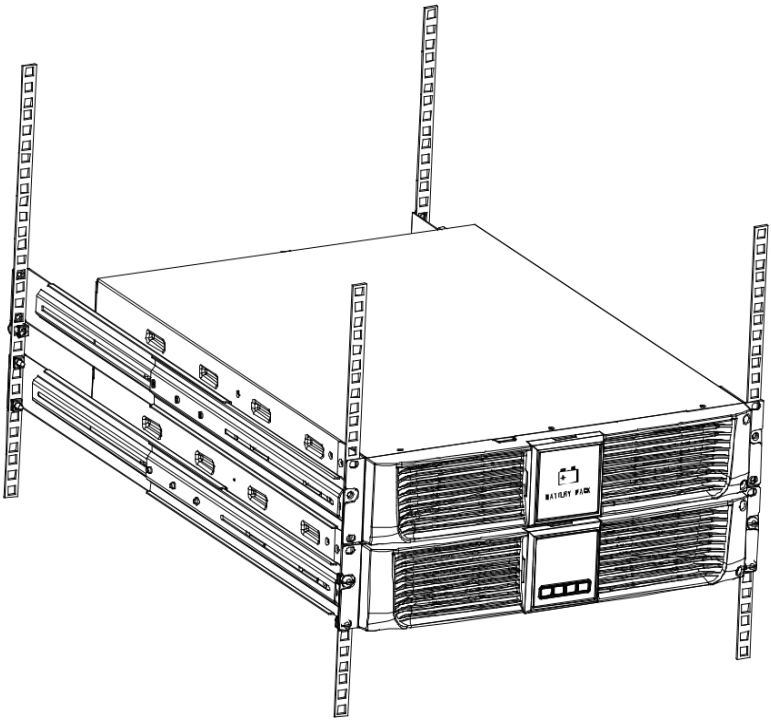
5. Once the EBM has been successfully connected to the UPS and the front panel has been reassembled correctly the UPS needs to be configured to recognise the EBM has been installed. To do this, refer to the instructions on page 16.
6. Finally after configuring the UPS to recognise the EBM, the protected equipment can be reconnected to the UPS. Please make sure that the load equipment is turned off before connecting all loads into the output C13/C19 ports.

2.2 Connecting the EBM in Rackmount Configuration:

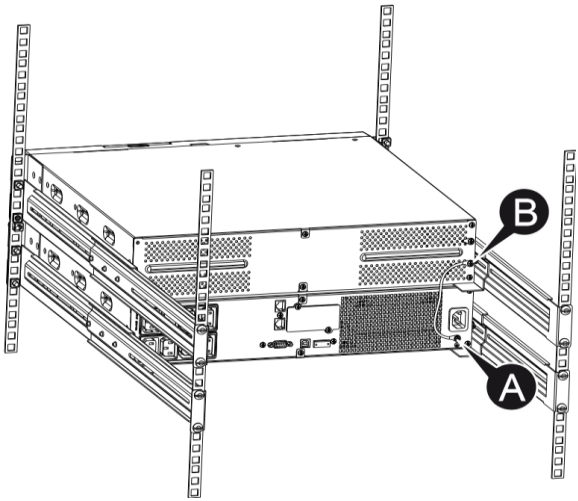
Connecting EBMs in rack form will take up additional rack space. Please ensure that you have adequate room within the rack prior to installation.

Please Note: Remember to disconnect the protected equipment and power down the UPS before installing any EBMs. This will prevent damage to the equipment and reduce the chance of electrical shock.

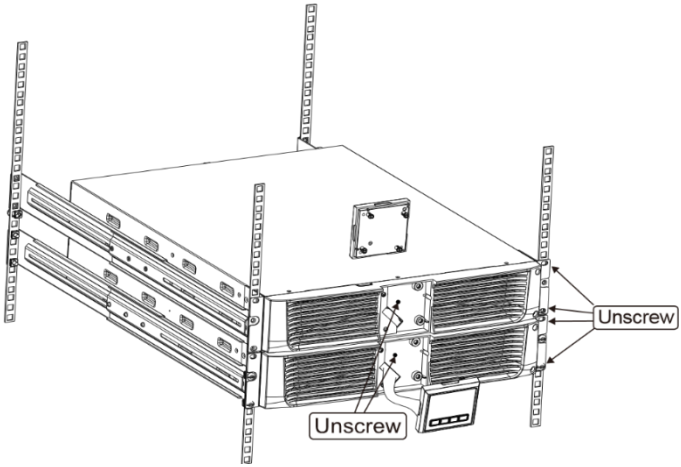
1. Using the same method as assembling the UPS in rack form, assemble the EBM into the rack-mounting above or below the UPS. It's recommended that the EBM is installed according with where the most available room is present as this will allow for future expansions to the number of EBMs connected to your UPS.



2. Connect an earth line from the UPS (port A) to the EBM (port B)

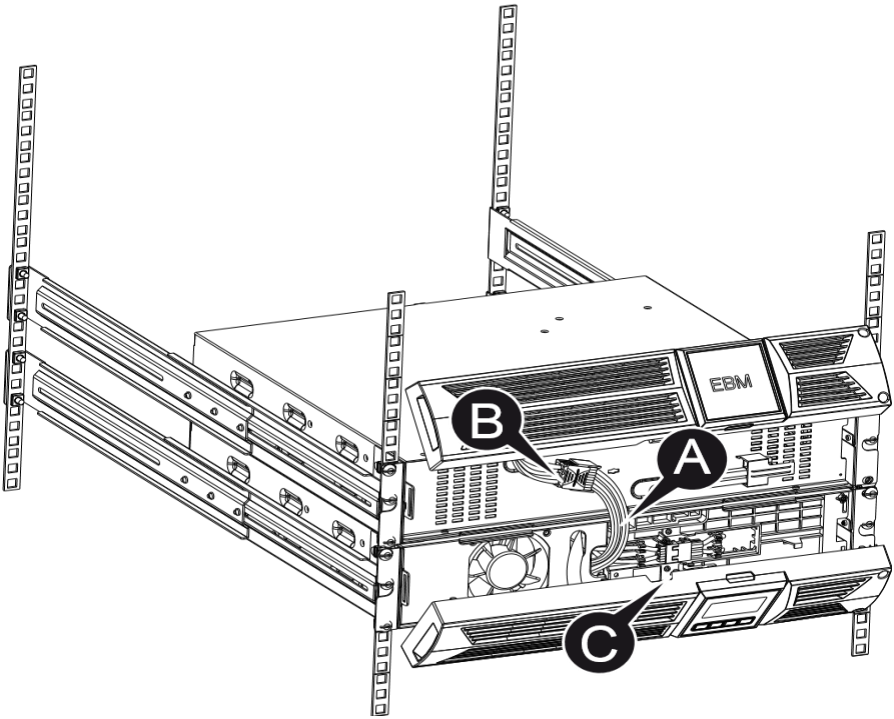


3. Take off the LCD box, and unscrew the internal screws.



4. Take off the front panel. To do this remove the 2 top screws from the front of the UPS and carefully take out the LCD screen and remove the screw. Finally push inward the small gate on the side of the front panel in order to remove it. This then enables you to connect the battery terminal (A) from the UPS to the EBM terminal (B) shown below.

   After doing this reassemble the front panel.



5. Once the EBM has been successfully connected to the UPS and the front panel has been reassembled correctly the UPS needs to be configured to recognise the EBM has been installed. To do this, refer to the instructions on page 16.

6. After installing and configuring the UPS to recognise the EBM, the protected equipment can then be reconnected to the UPS. Please make sure the load equipment is turned off before connecting all loads into the output C13/C19 ports.

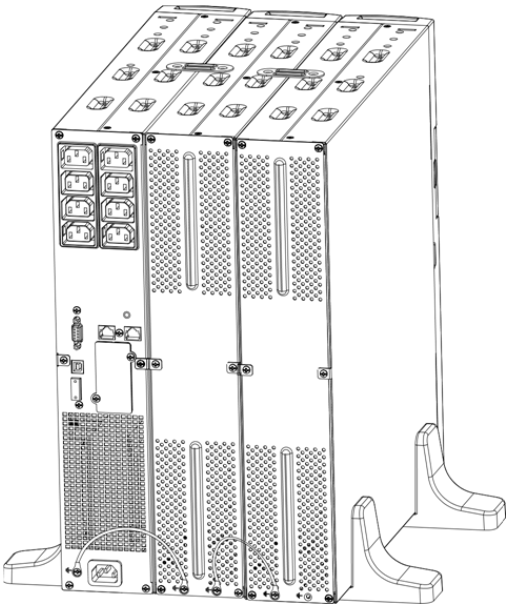
3. Connecting Multiple EBMs

The C300R UPS includes an external battery port that allows users to connect multiple EBM's in order to provide additional backup time. In order to do this please follow the instructions provided on the next few pages of this manual.

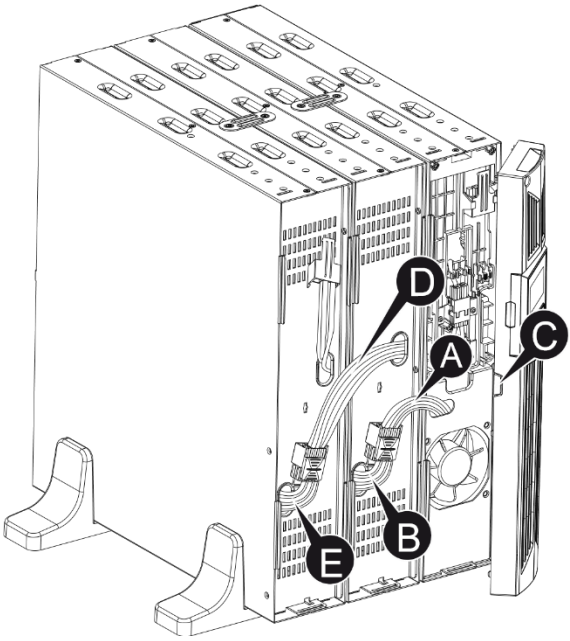
3.1 Connecting multiple EBMs in Tower Configuration

Please Note: Remember to disconnect the protected equipment and power down the UPS before installing any EBMs. This will prevent damage to the equipment and reduce the chance of electrical shock.

1. Connect an Earth line between the UPS and the first EBM, and then connect a second Earth Line between the first EBM and the second EBM.



2. Take off the front panel. To do this remove the 2 top screws from the front of the UPS and carefully take out the LCD screen and remove the screw. Finally push inward the small gate on the side of the front panel in order to remove it. This then enables you to connect the battery terminal (A) from the UPS to the EBM terminal (B) shown below. Then connect the battery terminal (D) from the first EBM to the battery terminal (E) of the second EBM. Then users need to reassemble the front panel.



3. Once all of the EBMs have been successfully connected to the UPS and the front panel has been reassembled correctly, the UPS needs to be configured to recognise the number of EBMs that have been installed. To do this, refer to the instructions on page 16.

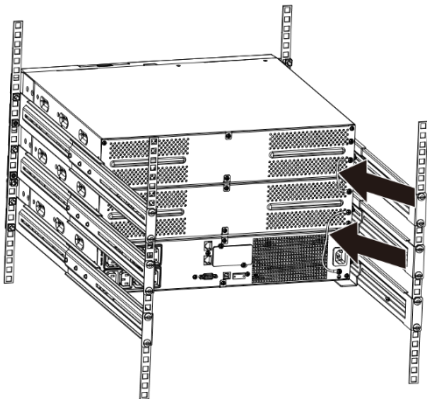
4. After installing and configuring the UPS to recognise the EBMs, the protected equipment can then be reconnected to the UPS. Please make sure the load equipment is turned off before connecting all loads into the output C13 ports.

3.2 Connecting Multiple EBMs in Rack Mounted Configuration

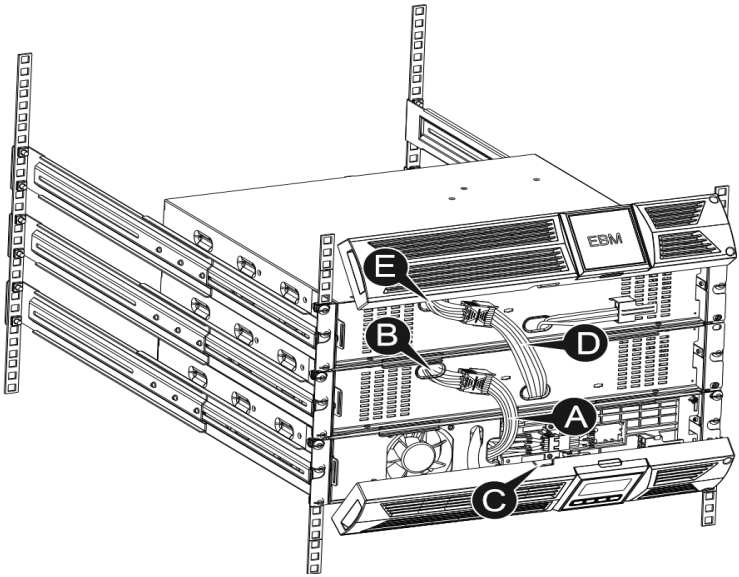
Connecting EBMs in rack form will take up additional rack space. Please ensure that you have adequate room within the rack prior to installation.

Please Note: *Remember to disconnect the protected equipment and power down the UPS before installing any EBMs. This will prevent damage to the equipment and reduce the chance of electrical shock.*

1. Connect an Earth line between the UPS and the first EBM, and then connect an Earth Line between the first EBM and the second EBM.



2. Take off the front panel. To do this remove the 2 top screws from the front of the UPS and carefully take out the LCD screen and remove the screw. Finally push inward the small gate (C) on the side of the front panel in order to remove it. This then enables you to connect the battery terminal (A) from the UPS to the EBM terminal (B) shown below. Then connect the battery terminal (D) from the first EBM to the battery terminal (E) of the second EBM. After doing this reassemble the front panel.



3. Once all of the EBMs have been successfully connected to the UPS and the front panel has been reassembled correctly the UPS needs to be configured to recognise the number of EBMs that have been installed.

4. After installing and configuring the UPS to recognise the EBMs, the protected equipment can then be reconnected to the UPS. Please make sure the load equipment is turned off before connecting all loads into the output C13/C19 ports.

Note: *One or more EBMs can be connected to the UPS in the same way as shown above (Up to a maximum of 2 EBMs).*

4. Configuring UPS for EBM Numbers

To ensure the LCD displays the correct battery capacity, configure the UPS for the correct number of EBMs:

1. **Enter settings mode:** Press and hold the Enter button for longer than 3 seconds.

   This will cause the UPS to go into settings mode.

2. **Select settings items:** Press the Select button cycle through the settings until you reach the settings item “EBM”.

3. **Enter settings item:** Press the Enter button for longer than one second to enter the setting item.

4. **Select setting value:** Press the Select button to select the number of EBMs according to your UPS configuration. (up to a maximum of 9)
5. **Confirm settings:** Press and hold the Enter button for one second, and the UPS will then return to settings mode.
6. **Exit Settings mode:** Press and hold the Enter button for 3 seconds or the Power button for 0.5 second to exit settings mode.