EX RT 5/7/11 Systems
Quick Start
**STEP 1  Power, Battery and Transformer Module Unpacking and Parts Check**

Power Module, Battery Module and Optional Transformer Module are shipped in separate boxes.

### Power Module Box Contents

- EX RT Quick Start Manual
- CD ROM
- Footers with Extensions
- Rail Kit
- RS232
- Warranty and Product Registration

**EX RT User Manual**
- EX RT EXB 5 Power Module Part number 86216
- EX RT EXB 7 Power Module Part number 86216
- EX RT EXB 11 Power Module Part number 86217

#### Battery Module Box Contents

- EXB Quick Start Manual
- Battery Detection Cable
- Battery Power Cable
- Stabilizer Bracket (4 screws included)
- Tower Expanders
- Rail Kit

**EXB Quick Start**
- EX RT EXB 5 Battery Module Part number 86207
- EX RT EXB 7 Battery Module Part number 86207
- EX RT EXB 11 Battery Module Part number 86209

#### Transformer Module Box Contents

- Transformer Module Quick Start Manual
- Warranty and Product Registration
- Transformer Cable
- Stabilizer Bracket (4 screws included)
- Tower Expander
- Rail Kit

**Transformer Module Quick Start Manual**
- EX RT Transformer Module Part number 86211
STEP 2  Tower Configuration

Tower Configuration of Standard System

Power Module

Battery Module (up to 6)

Tower Configuration with Optional Transformer Module

Transformer Module

Power Module

Battery Module (up to 6)
STEP 3 Rack kit

Power Module Rail Kit (PN 86001) Contents

- Front Mounting Brackets
- Rear Support Brackets
- I/O Box Brackets
- Telescopic Rails

Battery/Transformer/CLA Module Rail Kit (PN 86002) Contents

- Front Mounting Brackets
- Rear Support Brackets
- Telescopic Rails
A. Prepare the front panel logo and LCD display for rack orientation, of all modules (including transformer module, CLA charger, if equipped).

B. Rack Installation

1. Attch both front mounting ear brackets to module with supplied screws. (For this step, it is possible to adjust the position of both front mounting brackets.)
2. Attach rear support brackets to module. These brackets prevent the module from sliding out of the rack.
3. Attach rails together and secure with wing nuts, and finger tighten. (both sides).
4. Attach both rails to rear and front of rack with supplied flathead screws (as shown).
5. Use caution when sliding unit into rack. Temporarily secure unit to rack with thumb screws on front mounting brackets.
6. Secure rear support brackets to rails.
C. Installation of Power Module I/O Box Bracket (this step only applies to power module)

Install I/O Box Bracket to keep the I/O Box stationary while hot swapping the power module.

1. Secure small bracket to larger bracket from the underside.
2. Secure large bracket to rails at the rear of module with four nuts.
3. Secure attached brackets to the I/O Box with four screws.
STEP 4  Input/Output Box and Brackets Installation

Power Module I/O Box Installation

I/O Box Preparation

Outer circle is for Plastic Coupling
Inner circle is for Metal Coupling

1. Knockout appropriate circle for your wire style.

2. Remove the protective plate under the I/O Box and connect input/output cables. See section 2.7 in user manual for different input/output configurations.

3. Reinstall the protective plate under I/O Box.

4. Attach the I/O Box to the power module with three screws.

CAUTION: Always connect the earth ground wire first.
STEP 5  Systems Connections

Power Module and Battery Module Connections

A. System Connections with Battery Modules

1. Check that the battery circuit breaker is OFF ("0") position.
2. Connect the battery power cable to the connectors of the power and battery modules,
3. Connect the battery detection cable between connectors of the power and battery modules.

B. System Connections with Transformer Module

- Battery Module Circuit Breaker
- Battery Power Cable
- Battery Module Connector
- Battery Module Circuit Breaker

Follow connection diagrams for appropriate input/output voltages.

**NOTE**

The UPS factory default input AC power wiring is for common Normal and Bypass AC source (Single Main). AC input connections must be made to L1, L2 and \( \text{\textbullet}\) terminals.

No connections are required to L3 and L4. Refer to the System User Manual if separate (Dual Mains) input AC power is required.

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Input/Output cable cross-section (not provided):
maximum 4 AWG solid or stranded wire on transformer module.
**STEP 6 Initial Start-up Procedures**

**Initial Start-up**

1. Check that the manual bypass switch is on Normal position.
2. Set the normal AC source circuit breaker to the ON position.
3. Set the battery circuit breaker to the ON position.

The load is powered via the bypass AC source, but not protected by the UPS. Batteries are recharging, an eight-hour recharge period is necessary to get full backup time. Bypass LED is ON.

4. Press and hold the ON button for more than 3 seconds.

After the internal test sequence, the On-line Operation / Load protected LED is ON.

5. Set the Transformer Circuit Breaker to the ON position. Turn appropriate circuit breaker for suitable outlets.