

## **GE&EL 7.5-30 AC&DC ePLUS – Operation Modes**

### **1. WARNINGS**



Please remember to disconnect the equipment before modifying the connection mode.



Please be sure that no electrical connection between the phases exists. Keep in mind that, if two phases are actually interconnected, a shortcircuit may appear in voltage-based modes.



It is possible to change the position of the switches in any state different than *Run*. If the new position is not allowed, there will appear the *Wrong Connection* alarm.



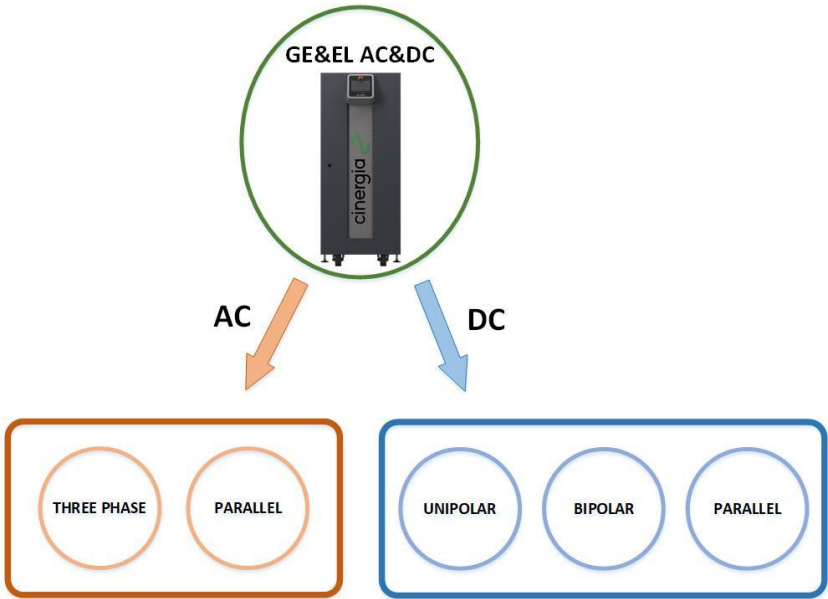
Change the position of any switches disconnectors or selectors in *RUN* mode is NOT allowed. The equipment or EUT can be seriously damaged.



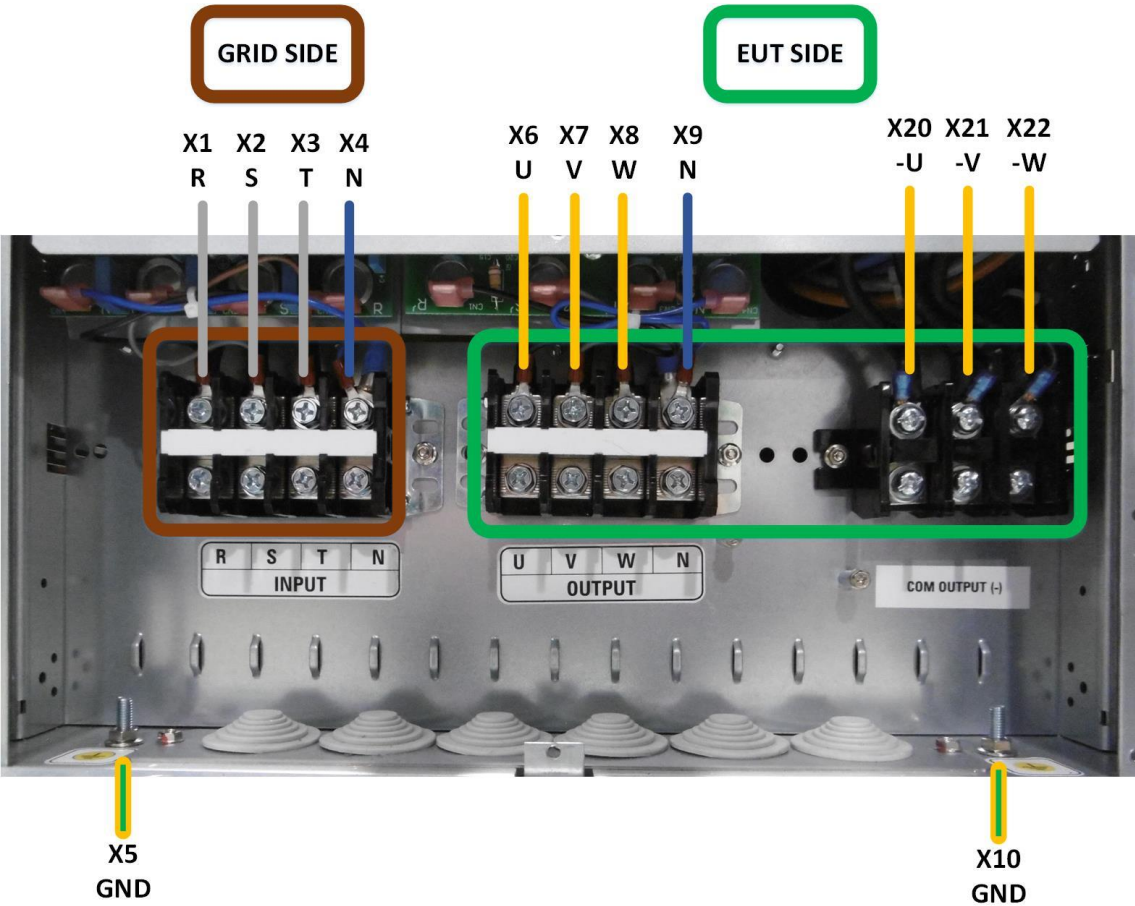
In case of discrepancies, between labelling and this manual, the label information will always prevail.

## 2. OPERATION MODES

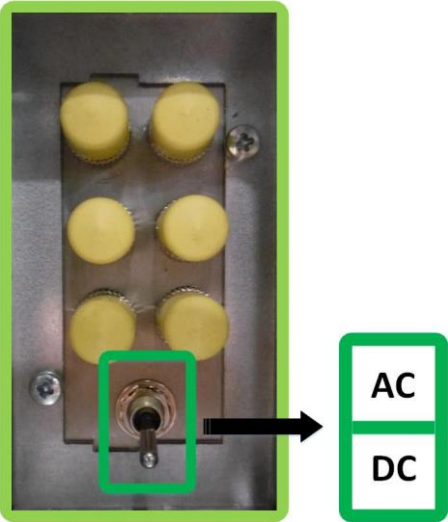
The Cinergia Grid Emulator and Electronic Load AC&DC can work in the following modes, which are detailed afterwards:



The terminal block nomenclature is as follows:



To change the working mode of the equipment to AC or DC, change the position of the selector located in the front panel of the equipment (opening the door) as the following picture details:



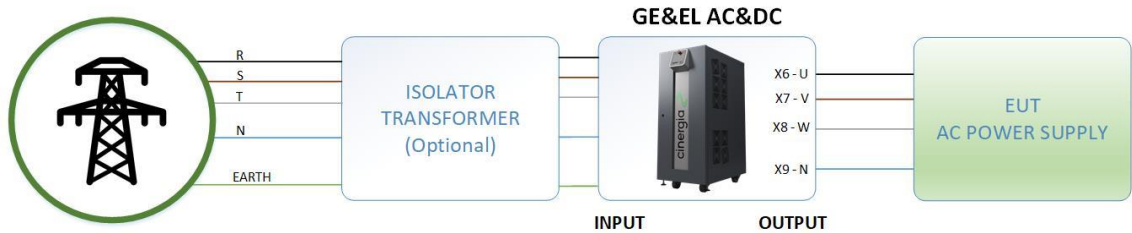
When changing from AC to DC mode or vice versa, it is necessary to turn the main Circuit Breaker of the converter off and on again.

2.1. GE AC MODE

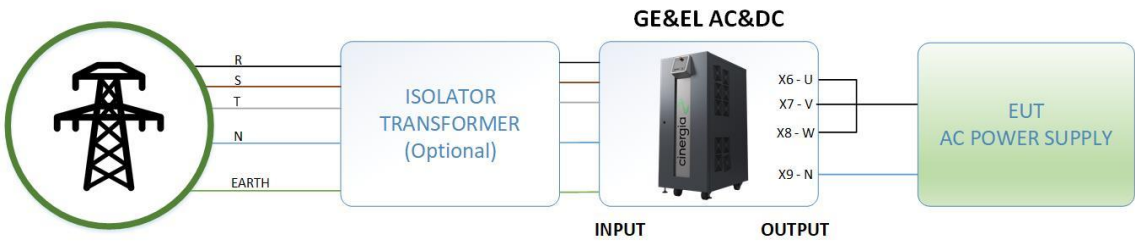
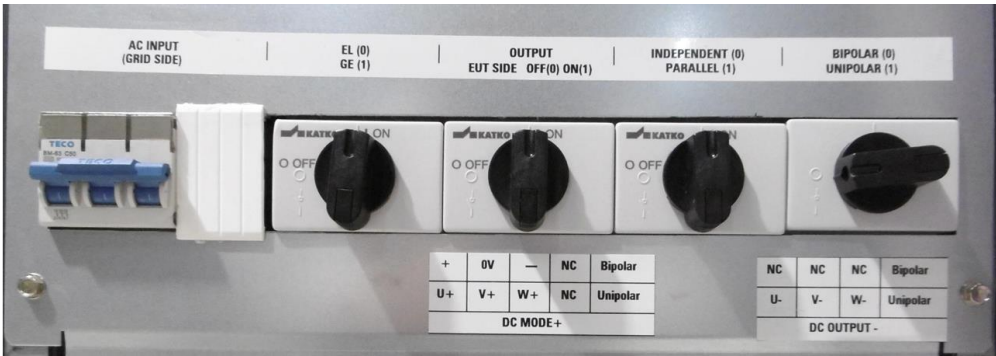


Please note that to work in AC mode, the AC/DC selector must be in AC position.

2.1.1. Three-phase mode



2.1.2. Single-phase mode

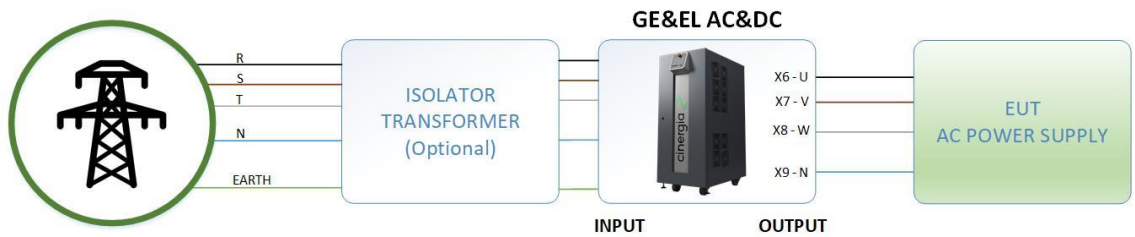
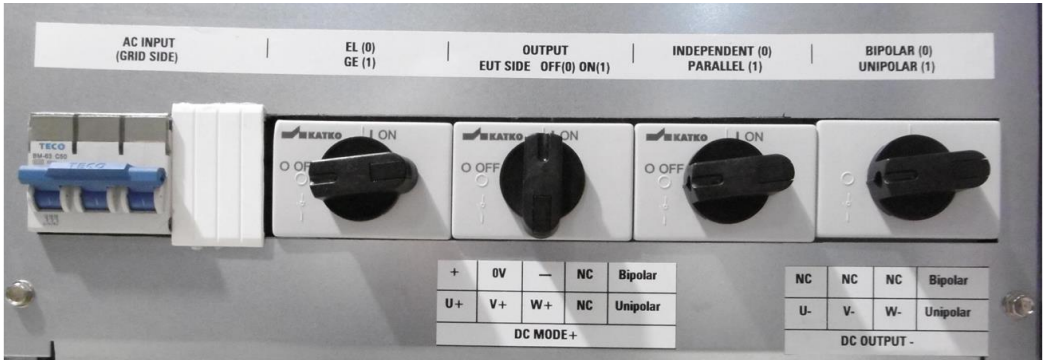


Please note that working with a single-phase grid requires a short circuit between the output terminals in the Cinergia converter. X6, X7 and X8 must be short circuited.


2.2. EL AC MODE




Please note that to work in AC mode, the AC/DC selector must be in AC position.

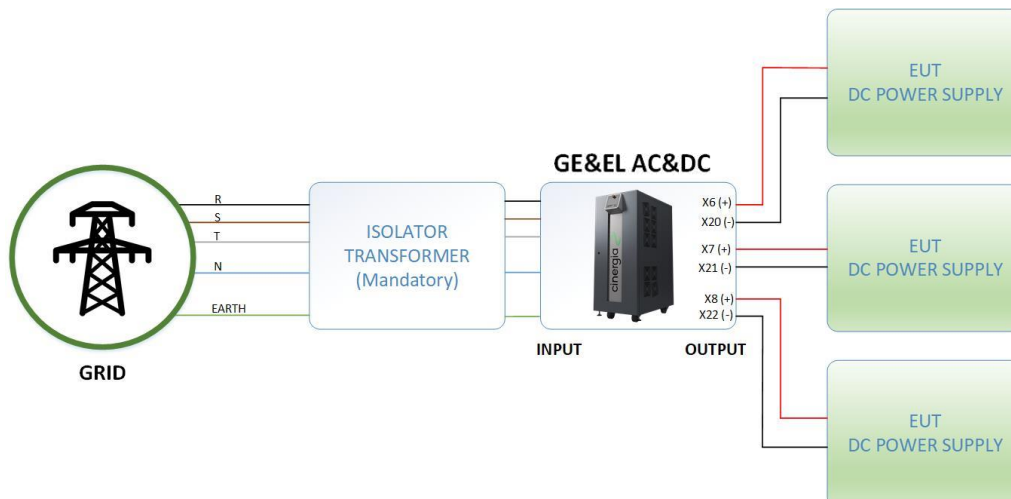
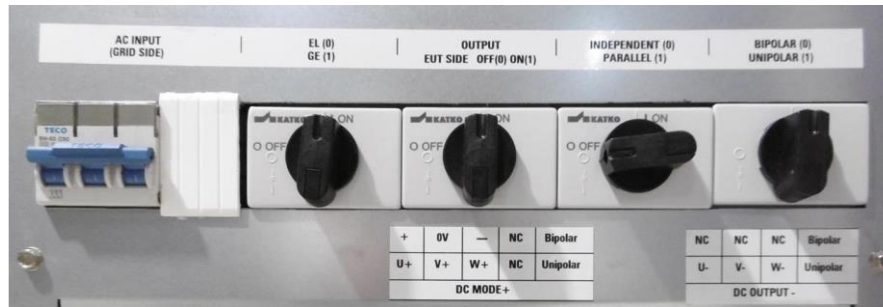


## 2.3. DC MODE

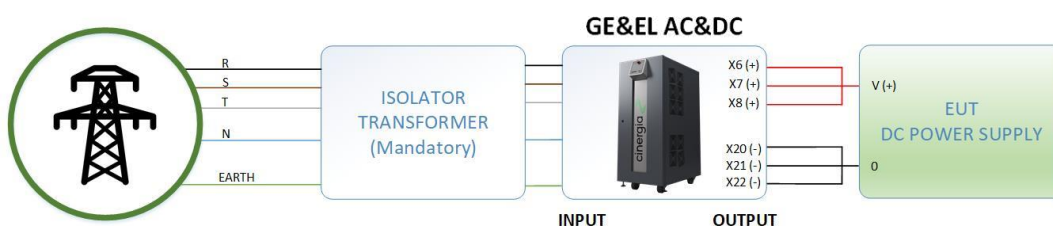
 Please note that to work in DC mode, the AC/DC selector must be in DC position.

 Please note that to work in DC mode, the GE/EL selector must be in GE position.

### 2.3.1. Unipolar independent mode



### 2.3.2. Unipolar parallel mode

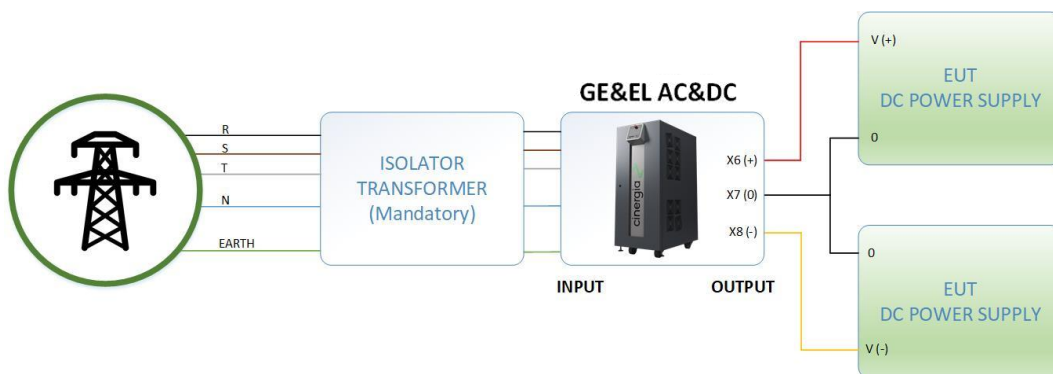
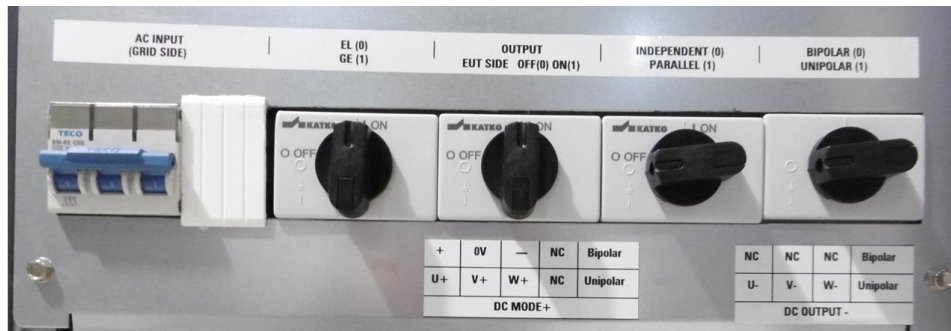






In case of working in parallel mode the user must use 3 cables in the positive outputs (X6, X7 and X8) or use a bridge which put together all 3 phases. The negative outputs (X20, X21 and X22) must also be bridged in case of using only one cable.

### 2.3.3. Bipolar mode



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