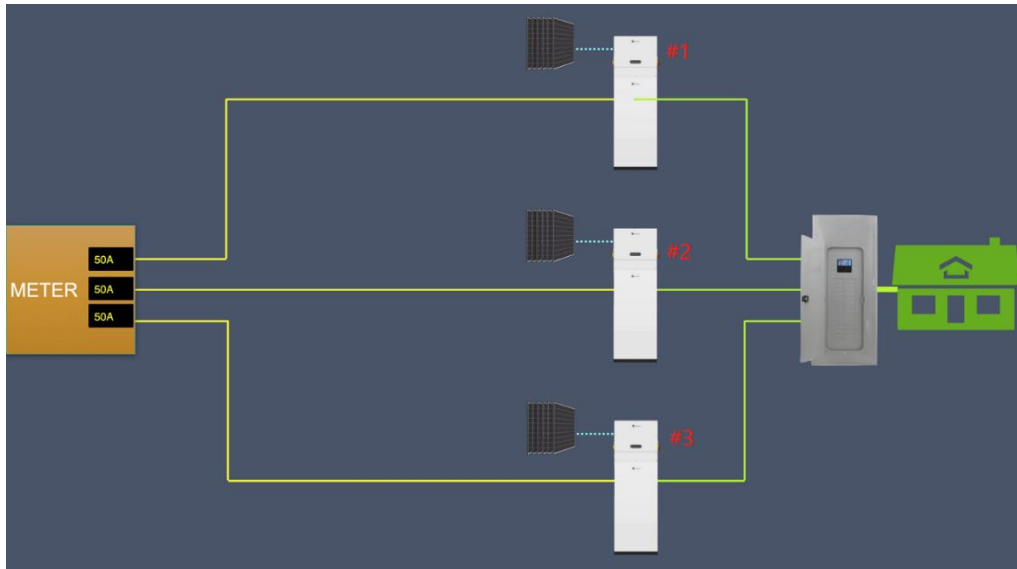


Parallel Application Instruction

Please contact POMCube (service@pomcube.com) in advance and send over the product SN of the uPCS to check if a firmware upgrade is required for the parallel application.

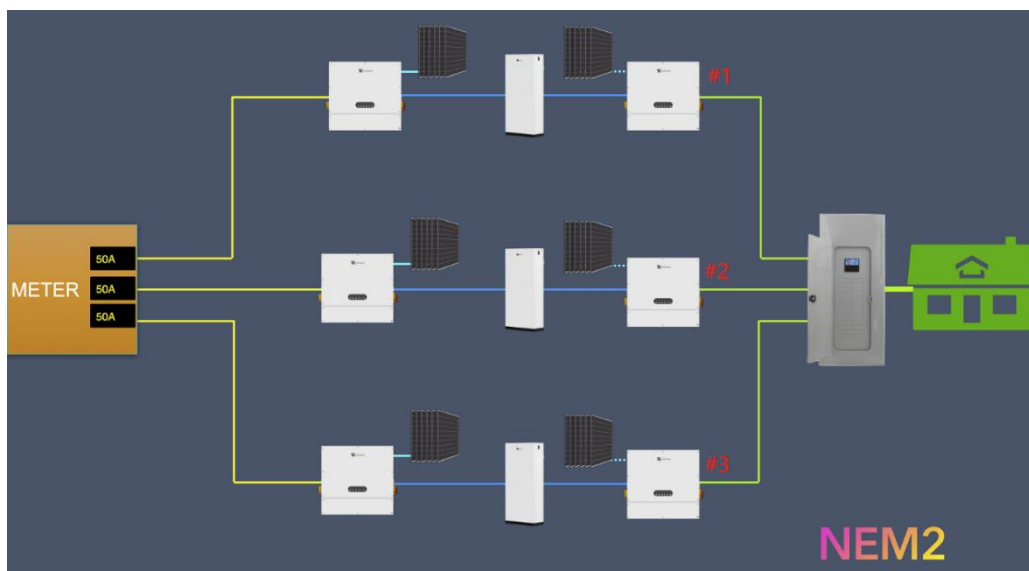
Different Configurations:

1. **Standard Configuration:** For customers that can accept a 0.5s transfer time when a grid outage occurs.



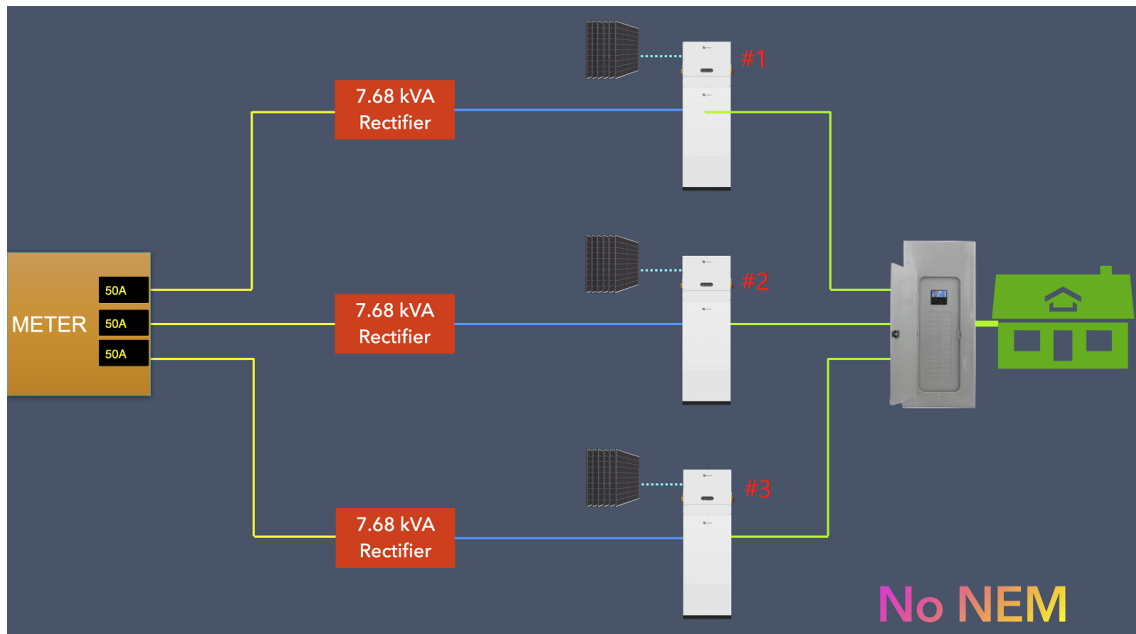
Standard - 0.5s Transfer Time

2. **Premium Configuration for NEM Scenario:** For customers that intend to sell the energy back to the grid and wish for zero transfer time when a grid outage occurs. Additional uPCS(Universal PCS) is required.



NEM Premium- Zero Transfer Time

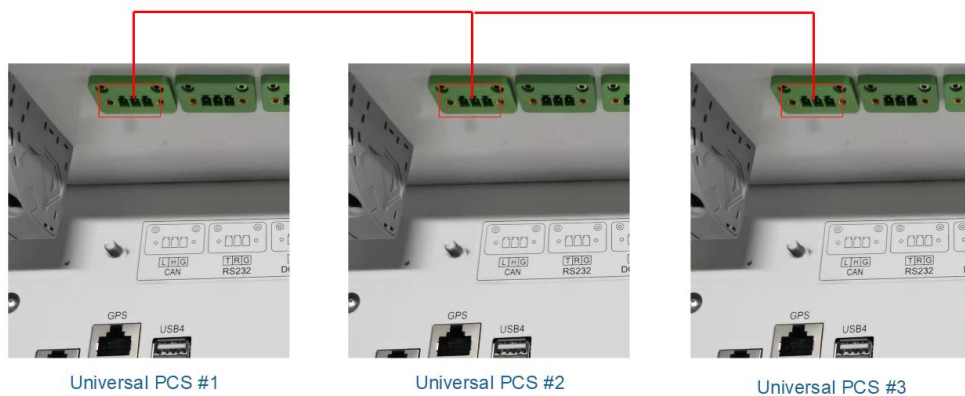
3. **Premium Configuration for No-NEM Scenario:** For No-NEM (Often known as No-Export or Zero Grid) customers that don't sell the energy back to the grid and wish zero transfer time when a grid outage occurs. An additional rectifier is required.



No-NEM Premium - Zero Transfer Time

Installation Requirement:

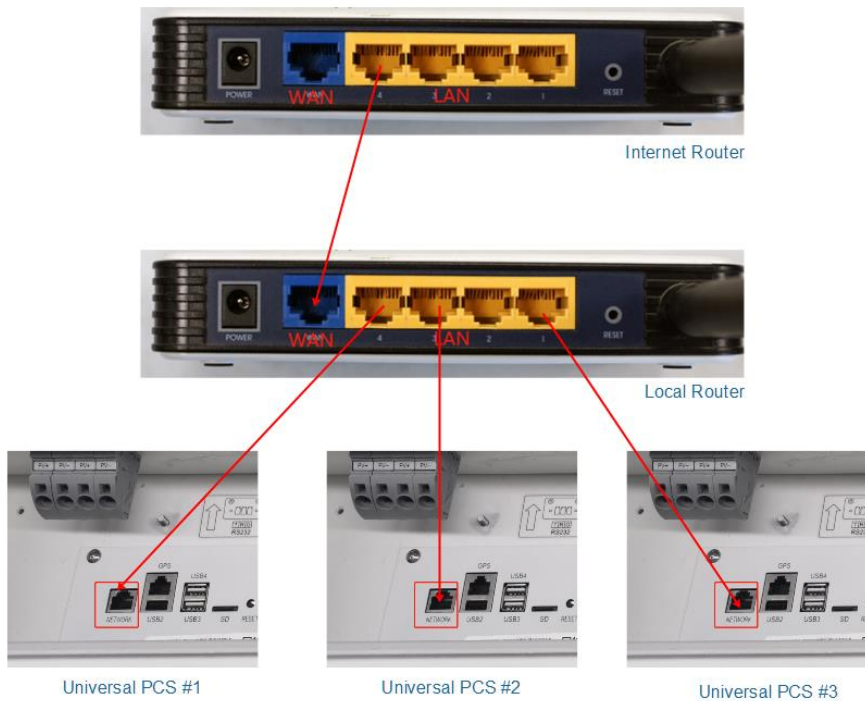
1. The grid/load port from each uPCS should be connected together. L1 from each uPCS must be connected to L1 from all the remaining uPCS and vice versa.
2. Wires from each uPCS to the load center and grid panel shall be of the same size and similar total length.
3. Please connect all the CAN ports with twisted-pair cables. The wire size should be no less than AWG20(0.5mm²), and the wire length should be no longer than 50ft(15m).



CAN Communication Connection

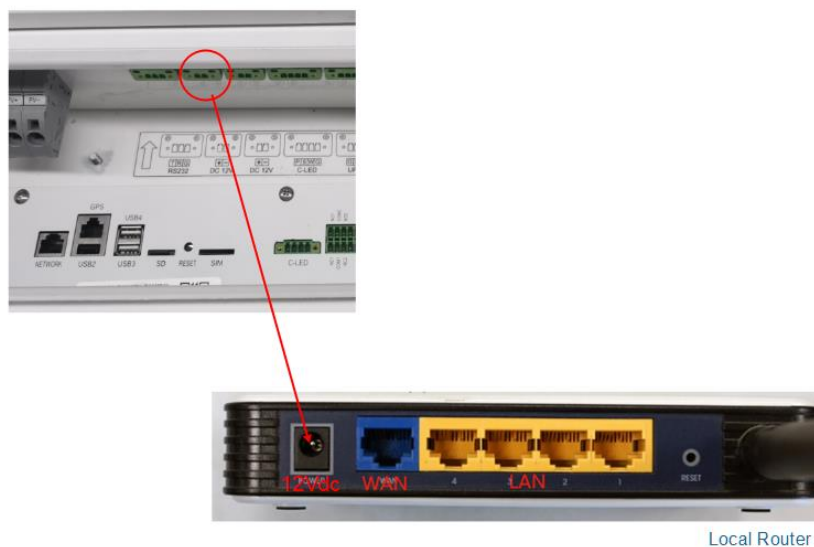
- Please install a local router. The NETWORK port from each uPCS must be connected to the local router. The network connection will help reduce the battery capacity difference during operation.

NOTE: It is strongly recommended to have the INTERNET connectivity for the local router during the installation. As depicted in the following diagram, the WAN port from the local router is connected to the Internet Router.



NETWORK Connection

- The local router is recommended to connect to any one of the 12VDC ports of the uPCS to ensure a reliable power supply. Please also ensure the router will consume no greater than 1A@12V (or 12W) as the 12VDC power supply is limited.



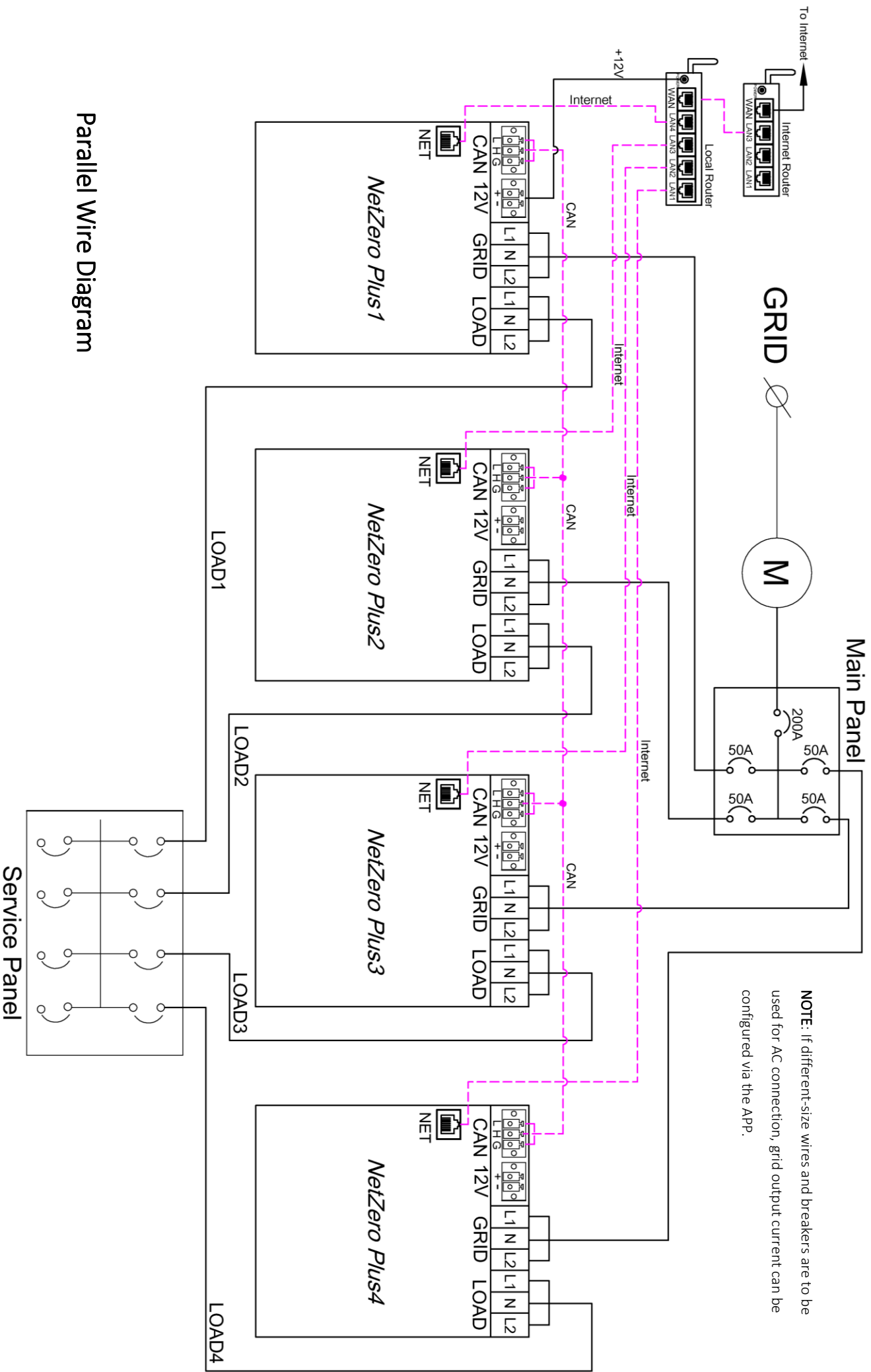
12VDC Connection

5. Please confirm all powered appliances can function normally. Please check the SOC indicator on each battery cabinet and ensure all the NetZero Plus are discharging.
6. If everything works fine, you now have a functioning parallel system.



Cautions:

1. NetZero Plus in parallel operation mode can't support AC coupling(solar) currently.
2. Fault from any NetZero Plus in parallel may cause improper functioning of the whole system.
3. The recommended continuous load and overload/surging capability amount to 80% of NetZero Plus's summing capability in parallel.
4. Circuits can only be turned on once the paralleled system has been started successfully.
5. **No-load running is prohibited for a paralleled system. A minimum load of 100W is recommended for each unit on average.**
6. The grid input must be switched on/off simultaneously for all units. Or the system might get protected or damaged.



Parallel Wire Diagram