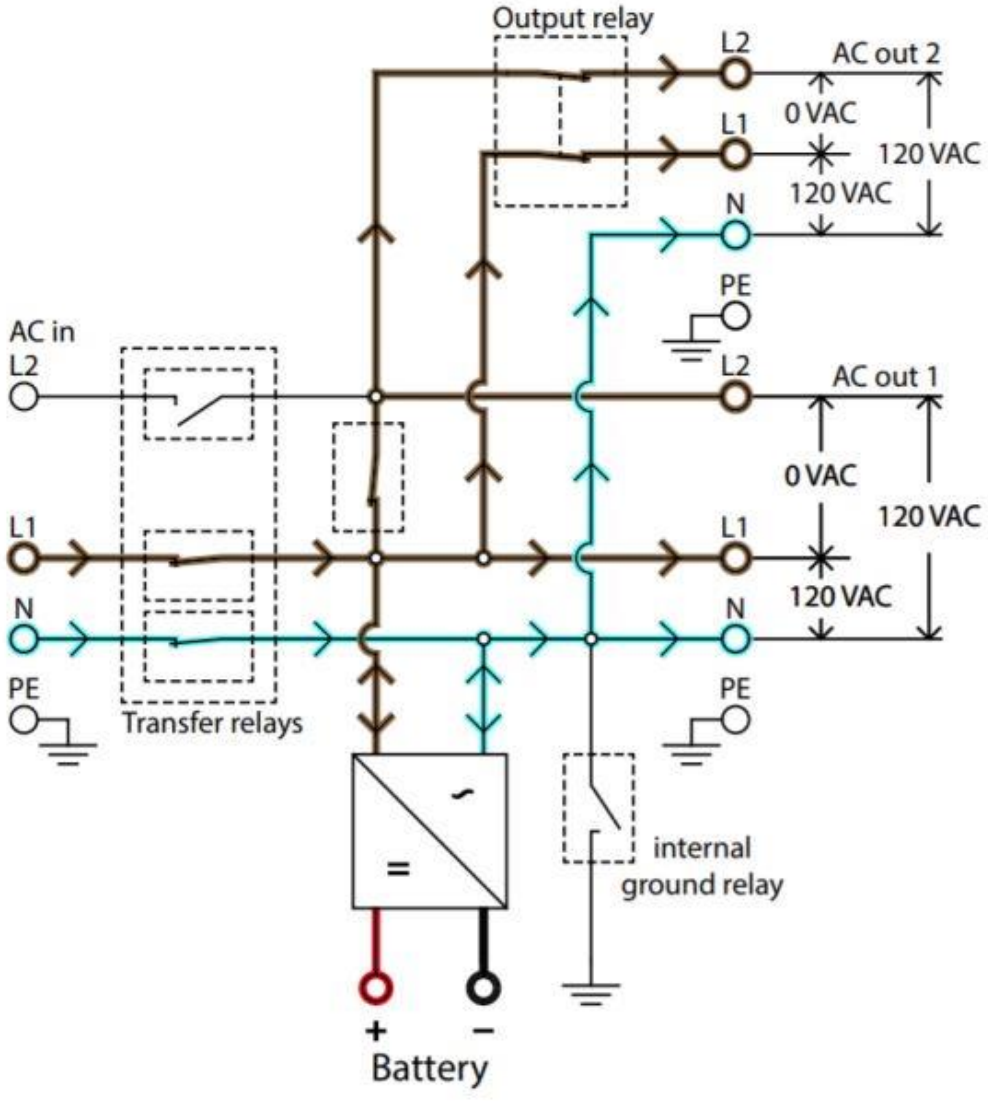
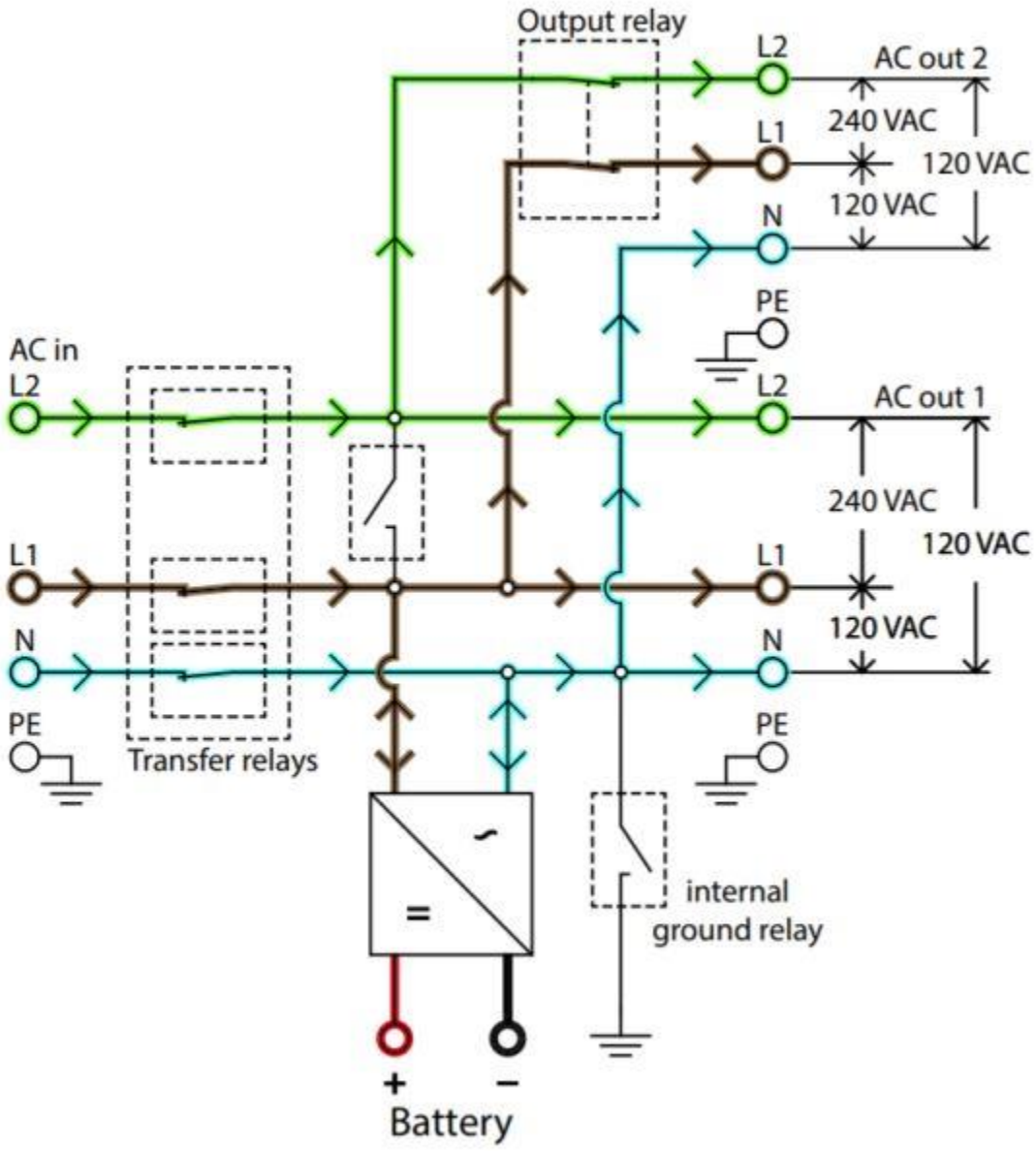
When I first installed the Multiplus II, I was only using 1 leg of my Onan QG7000 generator. Others have had this issue and Victron is aware of the issue but they do not have a solution at this time. Some have said to connect the 2 outputs of the Generator together so that L1 of the Multiplus II will pass thru. I tested my L1 and L2 from the generator and they were slightly out of phase with each other (1-2 volts out of phase). I was not comfortable connecting the 2 lines together. A member of the Victron Facebook group said he used a second transfer switch to solve this issue. I created a flow diagram to verify operation before I installed it. Here is the flow diagram from Victron when on 120v. It also will be the flow for 2 120v in phase outputs of the generator. Note the AC in L2 on the left side is open and not allowing L2 to flow into the Multiplus.



Power flow, 120VAC-input

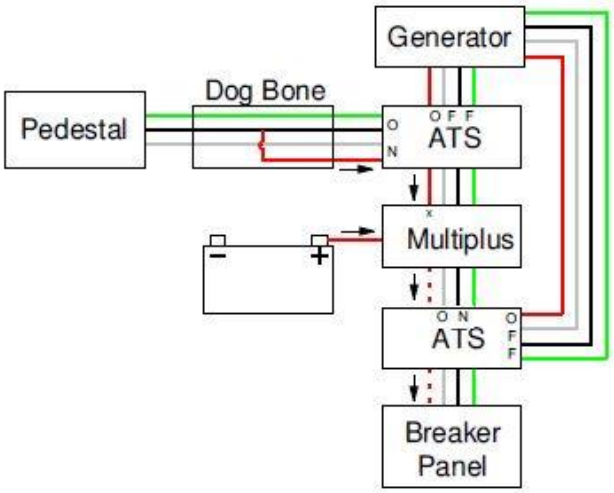
This is the flow diagram when connected to 120v split phase – read 50 amp RV pedestal. Note AC in L2 is allowed to flow into Multiplus.



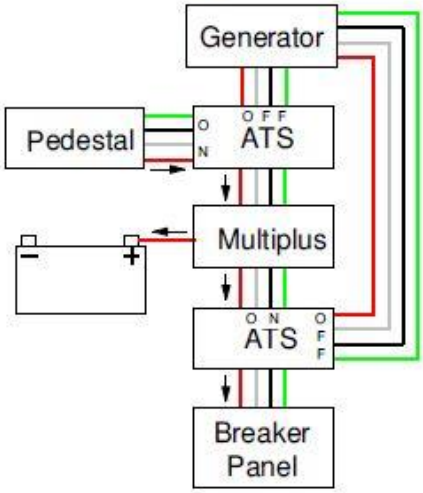
Power flow, split phase input

Here is my power flow diagram I used to verify power will flow as appropriate.

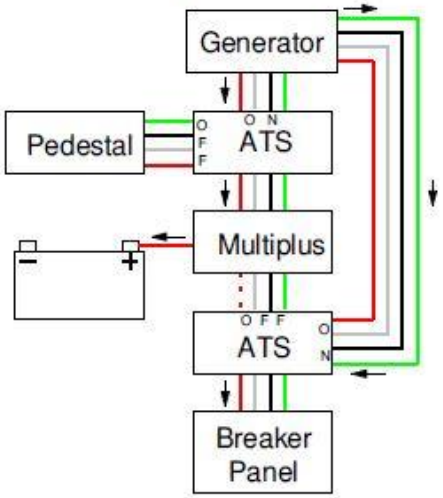
Pedestal on 30 Amp
With Dog Bone
Multiplus pass thru L1, Invert L2



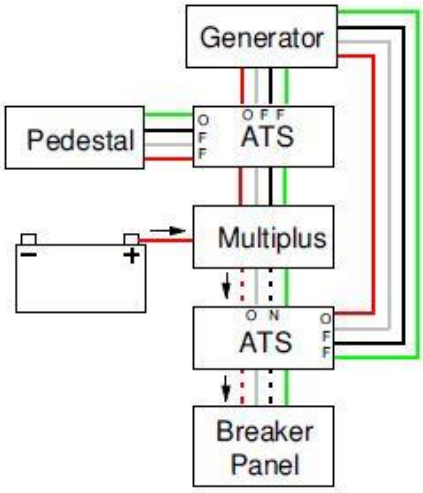
Pedestal on 50 Amp
Power supplied thru Multiplus



Generator On
Multiplus Charges Batt
Generator provides RV Power



Generator Off
Pedestal Off
Multiplus Uses Batt
Multiplus provides RV Power



The only issue I have found is that when on generator power, I would need to adjust the Multiplus to only allow 10 amps in so that I don't overload and trip generator breaker when running both A/Cs and bulk charging the batteries. I then switch it back to 50 amp when on shore power. If you have a QG5500 and can verify both lines are in phase then you might want to try connecting the 2 outputs together but I cannot verify how well that works as I did not do that.

QG 5500 will be within the 50 amps per line of the coach even when combined

$$\frac{5500\ watts}{120\ volts} = 45.83\ Amps$$

QG 7000 will exceed the 50 amp per line of the coach when combined

$$\frac{7000\ watts}{120\ volts} = 58.33\ Amps$$