

30 & 60 kW TQG Parallel Adjustment Procedure

1. Adjust voltage at AVR potentiometer on both sets to 120.0 V_{AC} measured at the convenience receptacle by multimeter. Adjust the frequency of both sets to 60.0 Hz by multimeter.
2. Jumper paralleling receptacle pins C & D on set one and apply rated load. Measure AC voltage at the convenience receptacle. Adjust Reactive Current potentiometer until voltage on multimeter is 117.0 V_{AC}. Lock the potentiometer.
3. Repeat step (2) for set two.
4. Connect the paralleling cable between the sets and insure that the load cables are connected in parallel.
5. Parallel the sets and apply rated load.
6. Measure DC volts at the Load Sensitivity test points. Adjust the Load Sensitivity potentiometer until voltage on multimeter is 3.95 V_{DC} for both sets. Verify that the kW and current are equal between the two sets. The set's metering should not be used to verify kW and current.
7. If the kW is not equal between the two sets, minor adjustment can be made to the Load Sensitivity potentiometer. However, adjustment should be made such that each set is adjusted equally in order to match the kW.
8. Once the kW is matched, the current should be equal. If the current is not equal, minor adjustment can be made to the Reactive Current potentiometer. However, adjustment should be made such that each set is adjusted equally in order to match the current.
9. Adjustment of the voltage and frequency using the Voltage Adjust and Frequency Adjust switches at the control panel will cause changes in load sharing when the sets are in parallel. Once Steps 1-8 have been completed for each set, kW and current should match during subsequent paralleling operations. Any minor deviations can be corrected using the front panel Voltage Adjust and Frequency Adjust switches.