

Section 5: Trouble Shooting

Condition	What to look for / Actions
Converter does not start, no noise.	<ul style="list-style-type: none">-Check (L1-L2) input power source for voltage.-Check circuit breaker or fuses.-Check for loose connection.-Make sure switch terminal blocks are securely attached.
Converter is trying to start, but does not.	<ul style="list-style-type: none">-Check (L1-L2) input power for correct voltage.-Make sure loads are off downstream of converter.-Check generator motor for correct wiring.-Make sure input wire is the correct size.-Check kVA size of transformer, it may be too small.
Converter is vibrating, runs loud or has bearing noise (squealing).	<ul style="list-style-type: none">-Make sure converter is not bolted down solid.-Check (L1-L2) input power for correct voltage.-Check generator motor for correct wiring.-New converters may need break in period, let run 25 – 50 hours.
Load does not start or run.	<ul style="list-style-type: none">-Check (L1-L2) input power for correct voltage.-Rotary phase converter may be too small.-Make sure input wire is the correct size.-Check kVA size of transformer, it may be too small.-Measure voltage when load is starting and running, additional capacitors may need to be added.-Check load motor wired for low voltage.
Load motor is running backwards.	<ul style="list-style-type: none">-Switch any two (2) connections at the load.
Chatter noise from my load relay.	<ul style="list-style-type: none">-Check (L1-L2) input power for correct voltage.-Check if T3 is connected to motor starting relay (coil).
Output voltage is high.	<ul style="list-style-type: none">-Check (L1-L2) input power for correct voltage.-Capacitors may need to be removed. Consult NAPCES.-A buck boost transformer may be needed if single phase input is too high.
Output voltage is low.	<ul style="list-style-type: none">-Check (L1-L2) input power for correct voltage.-Capacitors may need to be added. Consult NAPCES.-A buck boost transformer may be needed if single phase input is too low.
Generator feels hot.	<ul style="list-style-type: none">-Generator will feel warm to the touch. This is a normal condition.