The following are some common e-Codes from the Generac Evolution controller that you may see if there is a problem. There is a short description next to each one explaining a possible problem and a solution.

Legend:
Display reads
Alarm/Warning
e-Code Value

Overcrank ALARM 1100
Condition - Engine cranks but will not start.
Unit turns over but will not start. Controller is receiving signal on Wire 18.

Overspeed ALARM 1200
Prolonged
Over 72 Hz for 3 seconds.
Possible cause: Stepper motor/mixer body assembly issue.

Overspeed ALARM 1205
Instantaneous
Over 75Hz for 0.1 second (100 milliseconds).
Possible cause: Stepper motor/mixer body assembly issue.

Low Oil Pressure ALARM 1300
Occurred while running.
The default extended alarm for low oil pressure.
Check oil level and pressure.

High Temperature ALARM 1400
Condition - Air Flow Impeded / Flow Issue
Check the inlet/outlet for debris.

RPM Sensor ALARM 1501
Twin Cylinder+Running
Twin Cylinder Running faults to RPM Sensor Loss.
Possible Causes: air pocket in fuel line, dirty fuel, missing ignition pulse (loss of one of the primary coils).

RPM Sensor ALARM 1505
Twin Cylinder+Cranking
Twin Cylinder Cranking faults to RPM sensor loss
Possible Cause: starter motor issue, missing ignition pulse (loss of one of the primary coils).

RPM Sensor ALARM 1511
Single Cylinder+Running
Single Cylinder Running with Low Fuel Pressure faults to RPM sensor loss
Possible Causes: air pocket in fuel line, dirty fuel.

RPM Sensor ALARM 1515
Single Cylinder+Cranking
Single Cylinder Cranking faults to RPM sensor loss
Possible Cause: starter motor issue.

Underspeed ALARM 1600
Condition - Unit is Overloaded
Unit is Overloaded slowing engine speed, fuel supply low or throttle control problem.

Overvoltage ALARM 1800
Prolonged
Over-Voltage

Undervoltage ALARM 1900
Prolonged
Under-Voltage
Undervoltage due to loss of voltage for some time (10+ seconds).

Undervoltage ALARM 1901
Instantaneous
Undervoltage due to sudden loss of voltage.

Undervoltage ALARM 1902
Both Zero Crosses missing
Undervoltage due to faulty excitation winding, or zero cross circuit, or circuit in
general.
Possible cause: loose wiring, field boost hardware failure

Undervoltage ALARM 1906
Single Zero Cross missing
Undervoltage due to faulty excitation winding, zero cross circuit, or circuit in general.
Possible cause: field boost hardware failure

Wiring Error ALARM 2099
Customer connection low voltage and high voltage wires are crossed.
Check customer connection in generator

Overload Remove Load ALARM 2100
Overloaded - Default (Output Current Method)
Unit is overloaded, one of the two CTs is detecting an overload condition. Check
transfer switch loadshed functionality. (Change load dynamics or utilize loadshed). Remove Load

Undervoltage Overload ALARM 2299
Unit was overloaded and attempted to start with a large load connected. The unit
can not ramp up the generator voltage to its normal target voltage value if it starts
with a large load connected
Remove Load

Stepper Overcurrent ALARM 2399
Current flow in stepper coil(s) above specification

Fuse Problem ALARM 2400\* (\*Firmware v.1.11 and older only)
Missing / Damaged Fuse
The 7.5 amp Controller Fuse is missing or blown (open).

Low Battery WARNING
Condition->Battery less than 12.1 Volts for 60 seconds

Battery Problem WARNING
Condition->More than 16 Volts of battery voltage or 600 milliamperes or more of
charge current at the end of an 18 hour charge

Charger Warning WARNING
Less than 12.5 volts of battery voltage at the end of a 18 hour charge

Charger Missing AC WARNING
AC power is missing from the battery charger input

\*\*Additional codes FOR 8 kW Units Only\*\*

Overcrank ALARM 1100
Engine/Starter Problem
Limiting number of cranking cycles to protect the starter motor.
If the engine has tried to crank for 10 times unsuccessfully, this will trigger.

Underspeed ALARM 1600
Underspeed
The engine never comes up to 3700 RPM.
Check fuel selection and fuel supply.

Overload Remove Load ALARM 2102
Overloaded
Unit re-cranks 5 times when load is applied, engine dies (0 RPM) and has low
voltage (< 180V) Check for Overloaded condition on unit. Inspect stepper motor operation.

Overload Remove Load ALARM 2103
Overloaded
Unit has run and attempted to accept load 10 times, could not accept due to overload condition.
Check for Overloaded condition on unit

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