DNA Line Filter Connected In Isolation Mode
Single Phase Mode

Noisy Load
Example: Pool pump with noisy switching converter, solar inverter, variable speed pump, variable speed HVAC, any device that makes dirty electricity.

In Hot
Neutral

DNA Line Filter Connected in Isolation Mode.

Lossy Ind.
In
Out
Circuit Breaker

Lossy Shunt RxDNA

Circuit Breaker Panel

Neutral
Hot

This Hot circuit MUST BE fused at or below the DNA Line Filter rating.

Very, Very Important
In this drawing, the designation "In" refers to the source of Dirty Electricity (DE). It may or may not be the source of 50/60 Hz power.

Examples:
- In the case of an inverter for a solar or wind generation source, the Solar or Wind Inverter output connects to the "In" terminal of the DNA filter.
- In the case of filtering all of the power from a power utility provider, the 50/60 Hz power source from the utility provider, connects to the "In" terminal of the DNA filter (properly fused !).
- In the case of a DE-generating load, such as a pool-pump, switching HVAC, etc, the 50/60 Hz power connects to the "Out" terminals, and the DE-generating load connects to the "In" terminal of the DNA filter.

Always connect the "source" of DE to the "In" terminals.