

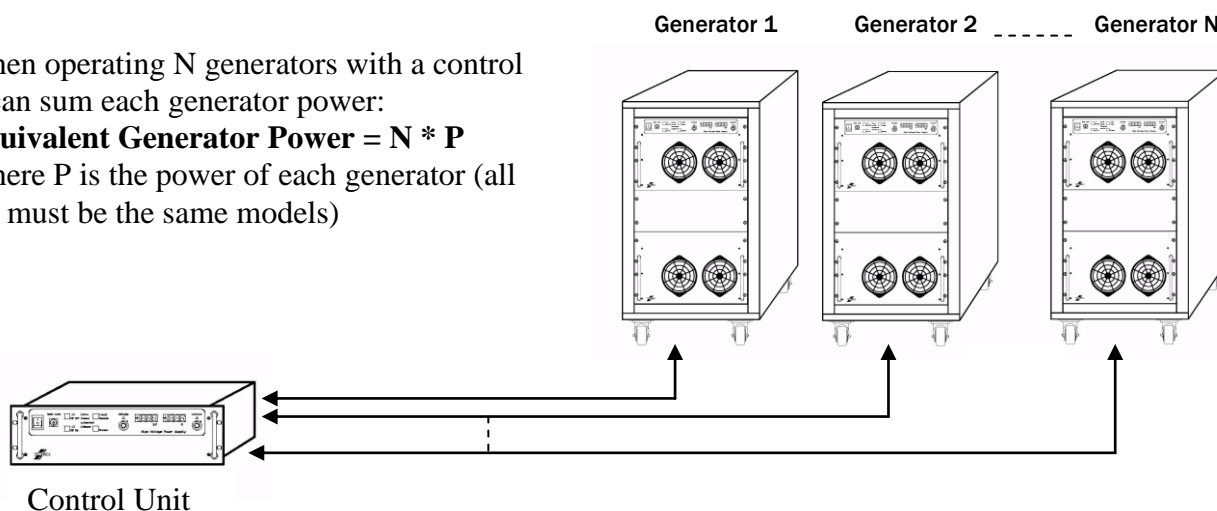
Application Note

Degraded mode – Control Unit

When operating N generators with a control unit, you can sum each generator power:

$$\text{Equivalent Generator Power} = N * P$$

Where P is the power of each generator (all generators must be the same models)



If one generator or more isn't connected, you can still use the control unit, but you'll lose the power of the missing generators:

$$\text{Equivalent Generator Power} = (N-M) * P$$

(where M is the number of missing generators)

Example:

You have 6 generators and 1 control unit. Each generator is 1kV, 20A.

- if used in parallel you'll have a 1kV, 120A equivalent generator.
- if used in serial, you'll have a 6kV, 20A equivalent generator *.

If 1 generator is missing, the control will automatically adapt itself to the correct number of generators:

- if used in parallel you'll have a 1kV, 100A equivalent generator.
- if used in serial, you'll have a 5kV, 20A equivalent generator *.

If 2 generator are missing, the control will automatically adapt itself to the correct number of generators:

- if used in parallel you'll have a 1kV, 80A equivalent generator.
- if used in serial, you'll have a 4kV, 20A equivalent generator *.

** only with Control Unit Serial/Parallel models. Standard Control Unit only works in parallel mode*