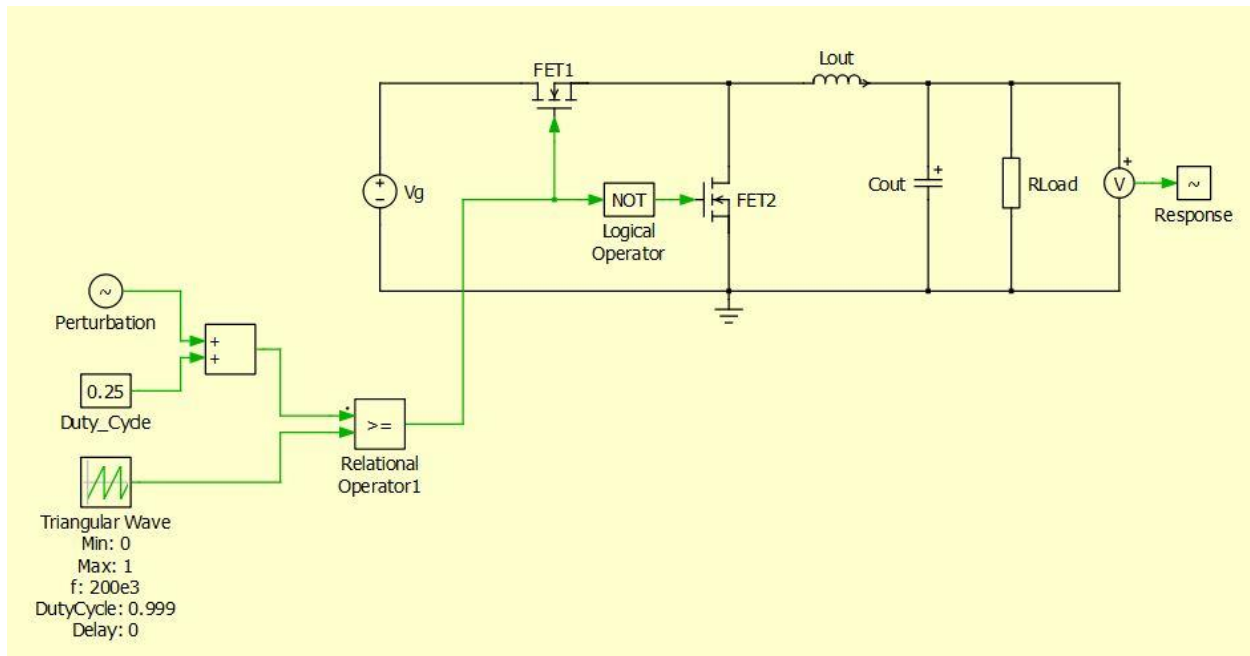
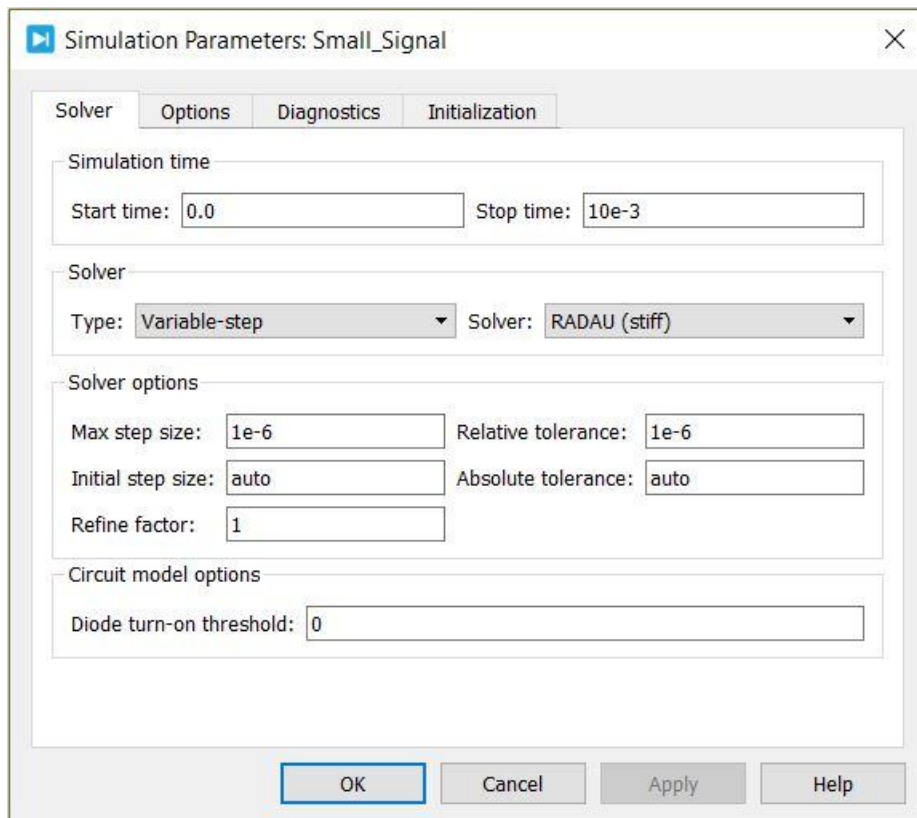


Buck PWM converter used in the simulation:



These simulation parameters are the same for each cases:



▶ Analysis Tools: Small_Signal

✕

Analyses

Impulse Response Analysis

Impulse Response Analysis

Analysis type: Impulse Response Analysis

Description: Impulse Response Analysis

Setup

Options

Steady-State Options

Simulation start time:

0

Frequency scale:

logarithmic

Number of points:

300

Show results

+

-

Show log

Start analysis

Accept

Revert

Help

▶ Analysis Tools: Small_Signal

✕

Analyses

Impulse Response Analysis

Impulse Response Analysis

Analysis type: Impulse Response Analysis

Description: Impulse Response Analysis

Setup

Options

Steady-State Options

Number of init. cycles:

0

Termination tolerance:

1e-4

Max. number of iterations:

20

Rel. perturbation for Jacobian:

1e-4

Jacobian calculation:

fast

Show results

+

-

Show log

Start analysis

Accept

Revert

Help

Case 1:

Analysis Tools: Small_Signal

Analyses

- Impulse Response Analysis
- Impulse Response Analysis

Analysis type: Impulse Response Analysis

Description: Impulse Response Analysis

Setup Options Steady-State Options

System period: $1/200e3$

Frequency range: $[10 \ 1e5]$

Amplitude: $1e-3$

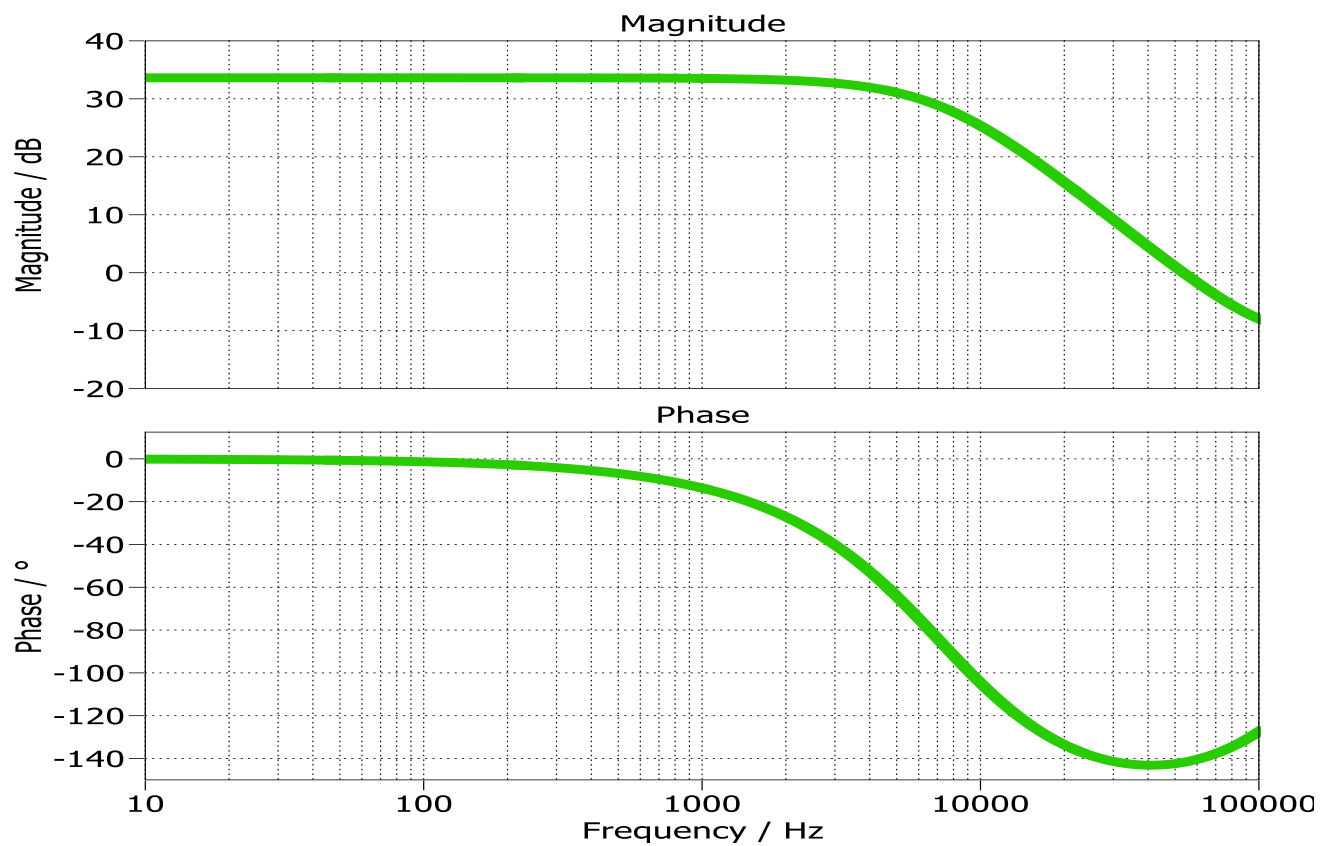
Perturbation: Perturbation

Response: Response

Show results

+ - Show log Start analysis Accept Revert Help

Result:



Case 2:

Analysis Tools: Small_Signal

Analyses

- Impulse Response Analysis
- Impulse Response Analysis

Analysis type: Impulse Response Analysis

Description: Impulse Response Analysis

Setup Options Steady-State Options

System period: $1/200e3$

Frequency range: $[10 \ 1e6]$

Amplitude: $1e-3$

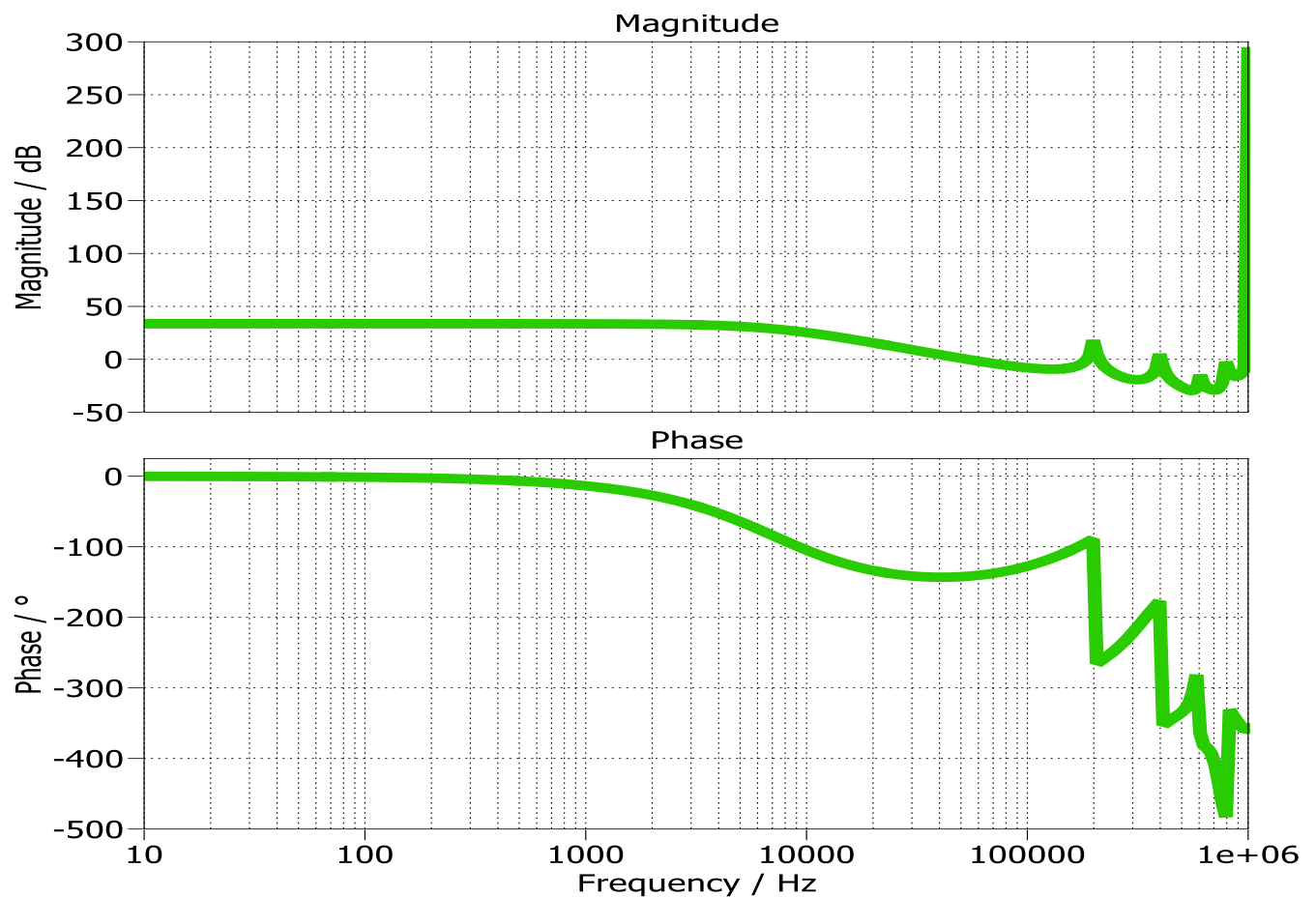
Perturbation: Perturbation

Response: Response

Show results

+ - Show log Start analysis Accept Revert Help

Result:



Case 3:

Analysis Tools: Small_Signal

Analyses

- Impulse Response Analysis
- Impulse Response Analysis

Analysis type: Impulse Response Analysis

Description: Impulse Response Analysis

Setup Options Steady-State Options

System period: 1/200e3

Frequency range: [10 1e7]

Amplitude: 1e-3

Perturbation: Perturbation

Response: Response

Show results

+ - Show log Start analysis Accept Revert Help

Result:

