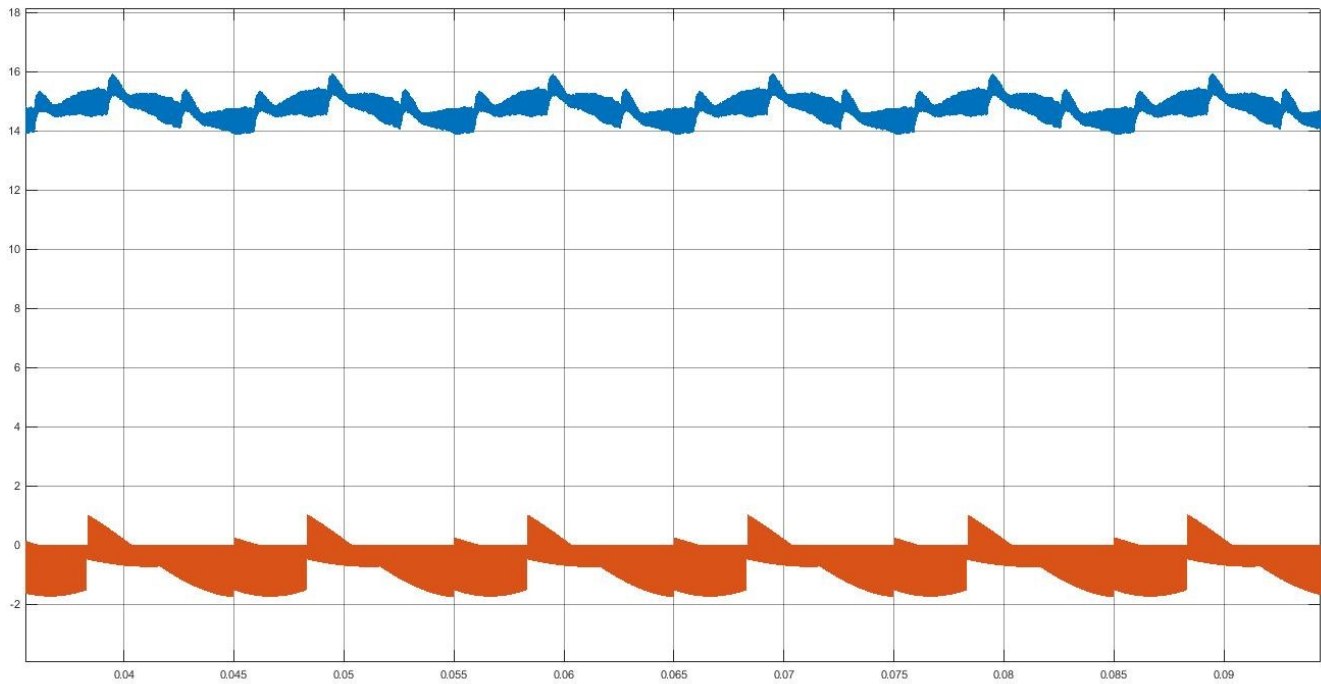


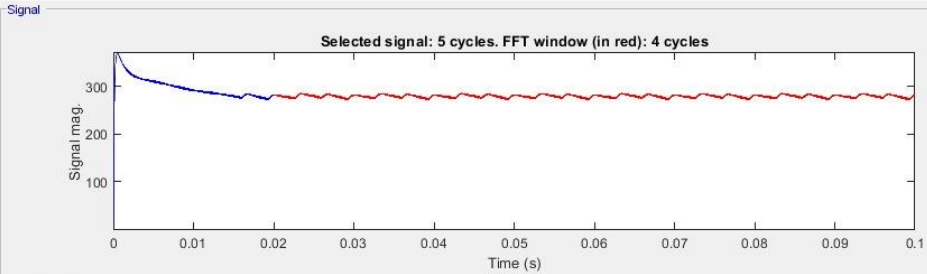
```
Lload_1A = Lnom*1.00; % Henries  
Lload_1B = Lnom*1.00; % Henries  
Lload_1C = Lnom*1.00; % Henries  
Rload_1A = Rnom*1.20; % Ohms  
Rload_1B = Rnom*1.20; % Ohms  
Rload_1C = Rnom*1.00; % Ohms  
  
Lload_2A = Lnom*1.00; % Henries  
Lload_2B = Lnom*1.00; % Henries  
Lload_2C = Lnom*1.00; % Henries  
Rload_2A = Rnom*1.00; % Ohms  
Rload_2B = Rnom*1.00; % Ohms  
Rload_2C = Rnom*1.00; % Ohms
```

Simulation file: *ng_sim_model_parallel_RL_load_Rectifier_added"*

Yukardaki parametrelerle paralel ve rectifier eklenmiş simülasyonda interleavingin etkisini gözlemledim. Aşağıda 1. ve 2. modüldeki dc akımların toplamını ve farkını ekledim.



DC link voltajınının yüksek ve düşük frekanslarda fftsini alıp sonuçları kaydettim. Beklendiği üzere 100 Hz, 300 Hz ve katları ve 40 kHz civarında harmonikler gözlemledim.



Available signals

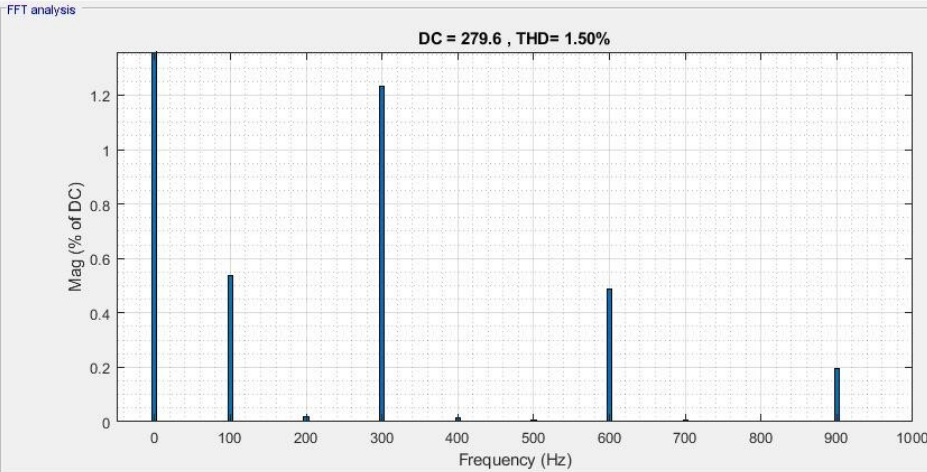
Refresh

Name: ScopeData2

Input: input 1

Signal number: 1

Display: ☒ Signal ☐ FFT window



FFT settings

Start time (s): 0.02

Number of cycles: 4

Fundamental frequency (Hz): 50

Max frequency (Hz): 1000

Max frequency for THD computation:

Nyquist frequency:

Display style: Bar (relative to DC component)

Base value: 1.0

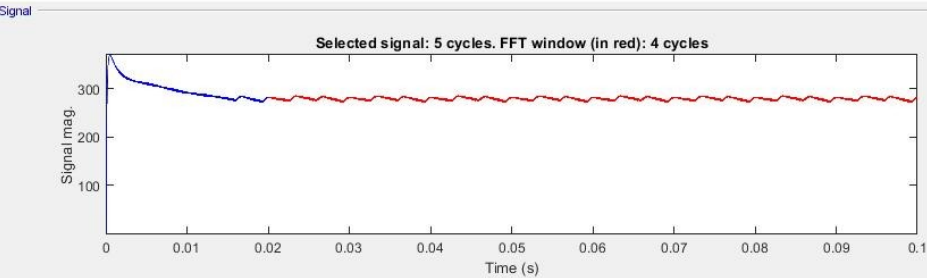
Frequency axis: Hertz

Display

Export

Help

Close



Available signals

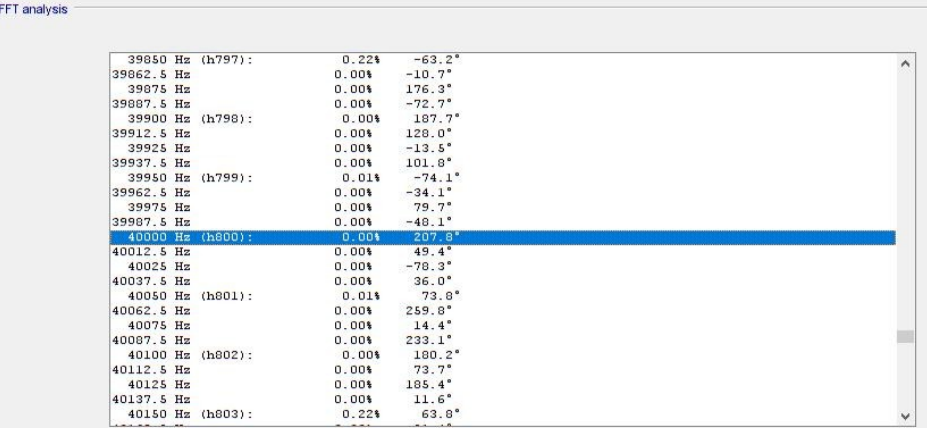
Refresh

Name: ScopeData2

Input: input 1

Signal number: 1

Display: ☒ Signal ☐ FFT window



FFT settings

Start time (s): 0.02

Number of cycles: 4

Fundamental frequency (Hz): 50

Max frequency (Hz): 50000

Max frequency for THD computation:

Nyquist frequency:

Display style: List (relative to DC component)

Base value: 1.0

Frequency axis: Hertz

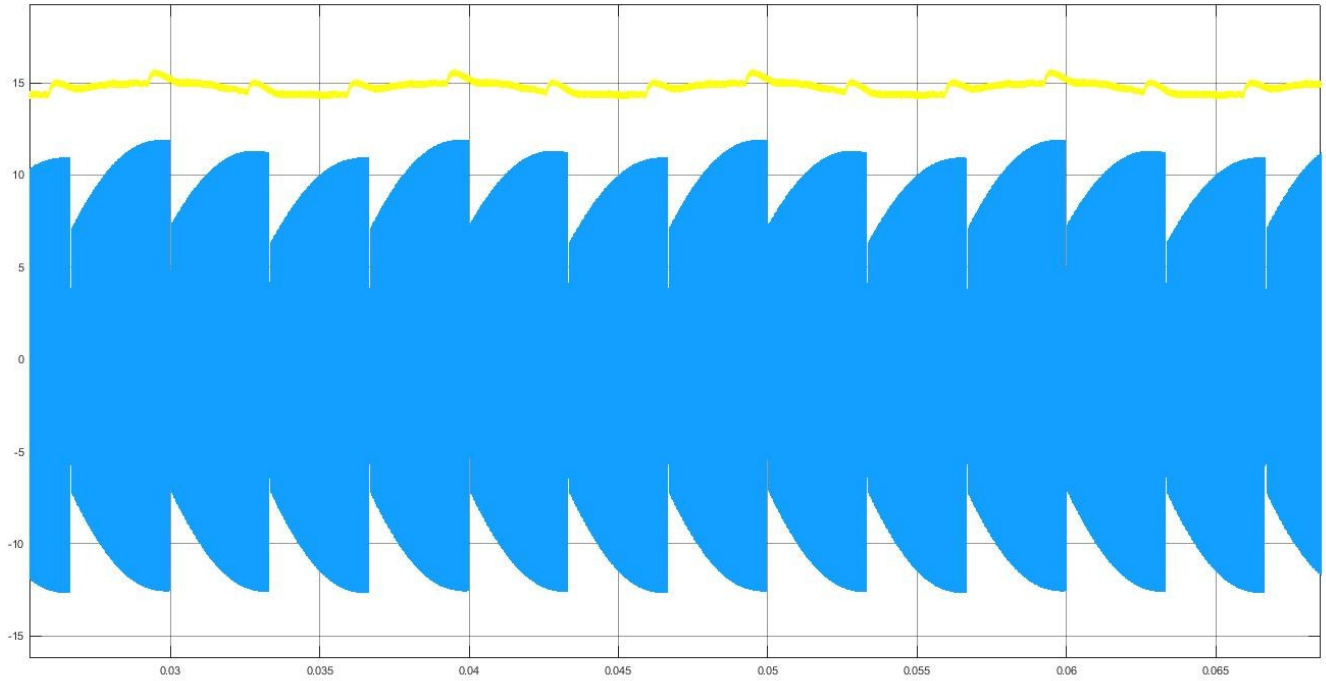
Display

Export

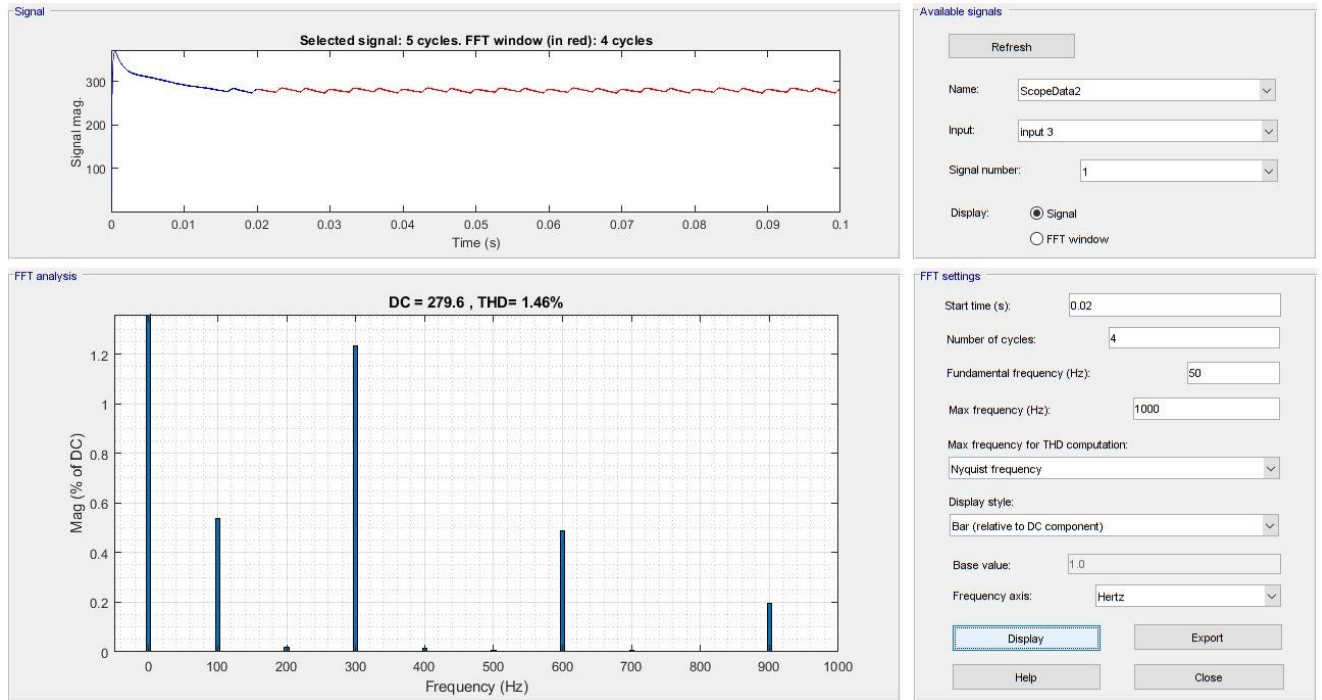
Help

Close

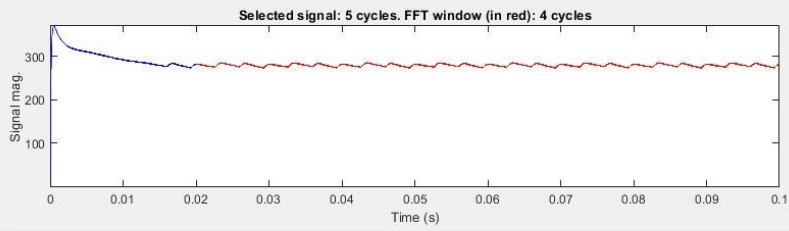
nterleaving yaptığım simülasyonda DC akımların toplamaları ve farkları aşağıdaki gibi çıktı. Toplam akımda ripple beklendiği üzere azaldı ancak farklarını aldığımızda akımda beklenmedik kesintiler gözlemledim. Bunun sebebi hakkında bir yorum yapamadım.



FFT sonuçları beklendiği gibi çıktı. Yüksek frekans harmonikler yok oldu düşük frekanslarda bir değişiklik olmadı.



Signal



Available signals

Refresh

Name: ScopeData2

Input: input 3

Signal number: 1

Display: ☒ Signal ☐ FFT window

FFT analysis

39862.5 Hz	0.00%	223.1°
39875 Hz	0.00%	212.7°
39887.5 Hz	0.00%	38.4°
39900 Hz (h798):	0.00%	191.8°
39912.5 Hz	0.00%	72.6°
39925 Hz	0.00%	77.3°
39937.5 Hz	0.00%	173.1°
39950 Hz (h799):	0.01%	-76.0°
39962.5 Hz	0.00%	175.6°
39975 Hz	0.00%	50.9°
39987.5 Hz	0.00%	216.2°
40000 Hz (h800):	0.00%	207.4°
40012.5 Hz	0.00%	143.6°
40025 Hz	0.00%	-49.2°
40037.5 Hz	0.00%	185.2°
40050 Hz (h801):	0.01%	77.1°
40062.5 Hz	0.00%	188.9°
40075 Hz	0.00%	-76.6°
40087.5 Hz	0.00%	-71.7°
40100 Hz (h802):	0.00%	173.5°
40112.5 Hz	0.00%	-37.4°
40125 Hz	0.00%	148.2°
40137.5 Hz	0.00%	137.2°
40150 Hz (h803):	0.01%	219.4°
40162.5 Hz	0.00%	118.0°

FFT settings

Start time (s): 0.02

Number of cycles: 4

Fundamental frequency (Hz): 50

Max frequency (Hz): 50000

Max frequency for THD computation:

Nyquist frequency

Display style: List (relative to DC component)

Base value: 1.0

Frequency axis: Hertz

Display Export

Help Close