**COMPONENT SELECTION**

**3-PHASE DIODE RECTIFIER**

**Diodes:**

From simulations;

**1)** <https://www.st.com/content/ccc/resource/technical/document/datasheet/59/22/ee/6e/ea/07/42/db/CD00199069.pdf/files/CD00199069.pdf/jcr:content/translations/en.CD00199069.pdf>

$0.41 400 V 1 A

**2)**

<https://www.st.com/content/ccc/resource/technical/document/datasheet/group3/50/83/ee/ee/0f/3a/4f/52/DM00081120/files/DM00081120.pdf/jcr:content/translations/en.DM00081120.pdf>

$0.50 400 V 1 A

**3)**

<https://d1d2qsbl8m0m72.cloudfront.net/en/products/databook/datasheet/discrete/diode/rectifier/rr1lam4s-e.pdf>

$0.39 400 V 1 A

**4)**

<https://www.vishay.com/docs/88503/1n4001.pdf>

$0.21 400-600 V 1 A

**5)**

<https://www.vishay.com/docs/89067/mse1pj.pdf>

$0.36 400-600 V 1 A

**6)**

<https://www.mouser.com.tr/datasheet/2/308/ES1J_D-1804952.pdf>

400-500-600 V 1 A

**7)**

<https://www.mouser.com.tr/datasheet/2/395/SFT11G_SERIES_I15-1918302.pdf>

400-500-600 V 1 A

**8)**

<https://www.mouser.com.tr/datasheet/2/427/1n5391-1768053.pdf>

400-500-600 V 1.5 A

**Capacitor:**

330 V

**1)**

<https://www.mouser.com.tr/datasheet/2/212/KEM_A4084_ALF70-1633783.pdf>

1 mf 450 V

**2)**

<https://www.tdk-electronics.tdk.com/inf/20/30/db/aec/B43512_B43522.pdf>

**BUCK CONVERTER**

**Diode:**

**1)**

<https://www.mouser.com.tr/datasheet/2/395/ES2AA_SERIES_L15-1918123.pdf>

400-500-600 V 2 A

**2)**

<https://www.mouser.com.tr/datasheet/2/395/ES2AA%20SERIES_L15-1099530.pdf>

400-500-600 V 2 A

**3)**

<https://www.mouser.com.tr/datasheet/2/427/uf5400-1768352.pdf>

400-500-600 V 3 A

**4)**

<https://www.mouser.com.tr/datasheet/2/395/SF31G_SERIES_G14-1918350.pdf>

400-500-600 V 3 A

**Capacitor:**

25 V

**1)**

<https://www.mouser.com.tr/datasheet/2/427/39d-1763541.pdf>

500 uf 30 V

**2)**

<https://www.mouser.com.tr/datasheet/2/427/39d-1763541.pdf>

500 uf 40 V

**Inductor:**

300 V, 2 A

**1)**

<https://product.tdk.com/info/en/documents/data_sheet/30/ds/B82724J8xN.pdf>

4.3 A 6.8mh

2)

<https://www.mouser.com.tr/datasheet/2/177/153_159-736947.pdf>

4A 15mh

**Mosfet:**

2.8 A (max values)

**1)**

<https://www.mouser.com.tr/datasheet/2/308/FDD5N50NZ-D-1807296.pdf>

500 V 4 A

**2)**

<https://www.mouser.com.tr/datasheet/2/308/FDD5N50F-D-1806934.pdf>

500 V 3.5 A