

LAMPIRAN



LAMPIRAN 1 Data Pengujian Dengan Variasi Tegangan Heater, Susunan Peltier, Dengan Fan

| Seri 110V Fan | | | | |
|----------------------|----------|--------|----------|----------|
| Time | I | V | Daya | dT Rata2 |
| (menit) | (Ampere) | (Volt) | (Watt) | (oC) |
| 1 | 0.0176 | 0.564 | 0.009926 | 0.91 |
| 2 | 0.0332 | 1.141 | 0.037881 | 1.78 |
| 3 | 0.0367 | 1.423 | 0.052224 | 3.01 |
| 4 | 0.0475 | 1.948 | 0.09253 | 4.16 |
| 5 | 0.0508 | 2.314 | 0.117551 | 5.28 |
| 6 | 0.0565 | 2.596 | 0.146674 | 6.30 |
| 7 | 0.0649 | 2.912 | 0.188989 | 7.11 |
| 8 | 0.0778 | 3.165 | 0.246237 | 8.13 |
| 9 | 0.0833 | 3.298 | 0.274723 | 8.83 |
| 10 | 0.0879 | 3.523 | 0.309672 | 9.26 |
| 11 | 0.0949 | 3.695 | 0.350656 | 9.93 |
| 12 | 0.0995 | 3.803 | 0.378399 | 10.39 |
| 13 | 0.0999 | 3.933 | 0.392907 | 10.77 |
| 14 | 0.1015 | 3.978 | 0.403767 | 11.20 |
| 15 | 0.1028 | 4.065 | 0.417882 | 11.14 |
| 16 | 0.1056 | 4.102 | 0.433171 | 11.39 |
| 17 | 0.1053 | 4.185 | 0.440681 | 11.60 |
| 18 | 0.1061 | 4.242 | 0.450076 | 11.92 |
| 19 | 0.1099 | 4.271 | 0.469383 | 12.10 |
| 20 | 0.1126 | 4.333 | 0.487896 | 12.24 |
| 21 | 0.1146 | 4.408 | 0.505157 | 12.45 |
| 22 | 0.1213 | 4.446 | 0.5393 | 12.59 |
| 23 | 0.1221 | 4.516 | 0.551404 | 12.72 |
| 24 | 0.1243 | 4.521 | 0.56196 | 12.86 |
| 25 | 0.1263 | 4.561 | 0.576054 | 13.00 |
| 26 | 0.1281 | 4.583 | 0.587082 | 13.24 |
| 27 | 0.1288 | 4.653 | 0.599306 | 13.24 |
| 28 | 0.1325 | 4.695 | 0.622088 | 13.49 |
| 29 | 0.1382 | 4.748 | 0.656174 | 13.49 |
| 30 | 0.1421 | 4.806 | 0.682933 | 13.56 |
| 31 | 0.139 | 4.81 | 0.66859 | 13.67 |
| 32 | 0.1387 | 4.814 | 0.667702 | 13.74 |
| 33 | 0.139 | 4.827 | 0.670953 | 13.84 |
| 34 | 0.1352 | 4.822 | 0.651934 | 13.78 |
| 35 | 0.1299 | 4.814 | 0.625339 | 13.85 |
| 36 | 0.1306 | 4.805 | 0.627533 | 13.92 |
| 37 | 0.1311 | 4.831 | 0.633344 | 13.99 |
| 38 | 0.1399 | 4.848 | 0.678235 | 14.23 |
| 39 | 0.1386 | 4.86 | 0.673596 | 14.03 |
| 40 | 0.1378 | 4.879 | 0.672326 | 14.10 |

| Seri 110V Fan | | | | |
|----------------------|----------|--------|----------|----------|
| Time | I | V | Daya | dT Rata2 |
| (menit) | (Ampere) | (Volt) | (Watt) | (oC) |
| 41 | 0.141 | 4.905 | 0.691605 | 14.20 |
| 42 | 0.1423 | 4.911 | 0.698835 | 14.21 |
| 43 | 0.1345 | 4.917 | 0.661337 | 14.01 |
| 44 | 0.1369 | 4.967 | 0.679982 | 13.91 |
| 45 | 0.1451 | 4.977 | 0.722163 | 13.85 |
| 46 | 0.1436 | 4.977 | 0.714697 | 13.75 |
| 47 | 0.1415 | 4.986 | 0.705519 | 13.65 |
| 48 | 0.1434 | 4.995 | 0.716283 | 13.59 |
| 49 | 0.1435 | 4.996 | 0.716926 | 13.35 |
| 50 | 0.1483 | 4.988 | 0.73972 | 13.46 |
| 51 | 0.1478 | 4.997 | 0.738557 | 13.19 |
| 52 | 0.1484 | 5.009 | 0.743336 | 13.33 |
| 53 | 0.1491 | 5.029 | 0.749824 | 13.33 |
| 54 | 0.1486 | 5.011 | 0.744635 | 13.29 |
| 55 | 0.1444 | 4.995 | 0.721278 | 13.33 |
| 56 | 0.148 | 5.029 | 0.744292 | 13.29 |
| 57 | 0.1421 | 5.016 | 0.712774 | 13.25 |
| 58 | 0.139 | 4.995 | 0.694305 | 13.15 |
| 59 | 0.1445 | 4.98 | 0.71961 | 13.21 |
| 60 | 0.1367 | 4.996 | 0.682953 | 13.31 |
| 61 | 0.14 | 4.897 | 0.68558 | 13.24 |
| 62 | 0.1195 | 4.424 | 0.528668 | 12.37 |
| 63 | 0.1033 | 3.986 | 0.411754 | 11.21 |
| 64 | 0.0871 | 3.556 | 0.309728 | 9.90 |
| 65 | 0.0764 | 3.119 | 0.238292 | 8.67 |
| 66 | 0.0601 | 2.723 | 0.163652 | 7.54 |
| 67 | 0.0488 | 2.266 | 0.110581 | 6.52 |
| 68 | 0.0366 | 1.978 | 0.072395 | 5.56 |
| 69 | 0.0154 | 1.697 | 0.026134 | 4.78 |
| 70 | 0.0122 | 1.479 | 0.018044 | 4.17 |
| 71 | 0.0106 | 1.278 | 0.013547 | 3.67 |
| 72 | 0.0087 | 1.12 | 0.009744 | 3.10 |
| 73 | 0.0075 | 0.958 | 0.007185 | 2.81 |
| 74 | 0.0066 | 0.839 | 0.005537 | 2.42 |
| 75 | 0.0052 | 0.786 | 0.004087 | 1.99 |
| 76 | 0.0047 | 0.624 | 0.002933 | 1.67 |
| 77 | 0.0041 | 0.526 | 0.002157 | 1.46 |
| 78 | 0.0036 | 0.437 | 0.001573 | 1.11 |
| 79 | 0.0031 | 0.397 | 0.001231 | 0.93 |
| 80 | 0.0027 | 0.344 | 0.000929 | 0.83 |

| Paralel 110V Fan | | | | |
|------------------|----------|--------|----------|----------|
| Time | I | V | Daya | dT Rata2 |
| (menit) | (Ampere) | (Volt) | (Watt) | (°C) |
| 1 | 0.0185 | 0.03 | 0.000555 | 1.66 |
| 2 | 0.0516 | 0.08 | 0.004128 | 3.38 |
| 3 | 0.0757 | 0.11 | 0.008327 | 4.49 |
| 4 | 0.0922 | 0.14 | 0.012908 | 5.37 |
| 5 | 0.1069 | 0.16 | 0.017104 | 6.49 |
| 6 | 0.1213 | 0.19 | 0.023047 | 7.40 |
| 7 | 0.1333 | 0.2 | 0.02666 | 8.15 |
| 8 | 0.1477 | 0.22 | 0.032494 | 9.02 |
| 9 | 0.1561 | 0.23 | 0.035903 | 9.65 |
| 10 | 0.1657 | 0.25 | 0.041425 | 10.32 |
| 11 | 0.1673 | 0.26 | 0.043498 | 10.78 |
| 12 | 0.1773 | 0.27 | 0.047871 | 11.41 |
| 13 | 0.1815 | 0.28 | 0.05082 | 11.80 |
| 14 | 0.1832 | 0.29 | 0.053128 | 12.28 |
| 15 | 0.1866 | 0.29 | 0.054114 | 12.40 |
| 16 | 0.1948 | 0.29 | 0.056492 | 12.37 |
| 17 | 0.1948 | 0.3 | 0.05844 | 12.62 |
| 18 | 0.1945 | 0.3 | 0.05835 | 12.80 |
| 19 | 0.1925 | 0.31 | 0.059675 | 13.30 |
| 20 | 0.1928 | 0.31 | 0.059768 | 13.18 |
| 21 | 0.1919 | 0.32 | 0.061408 | 13.32 |
| 22 | 0.1915 | 0.32 | 0.06128 | 13.54 |
| 23 | 0.1923 | 0.32 | 0.061536 | 13.61 |
| 24 | 0.1909 | 0.32 | 0.061088 | 13.60 |
| 25 | 0.1889 | 0.33 | 0.062337 | 13.43 |
| 26 | 0.1875 | 0.33 | 0.061875 | 13.82 |
| 27 | 0.1845 | 0.33 | 0.060885 | 13.79 |
| 28 | 0.1865 | 0.33 | 0.061545 | 13.82 |
| 29 | 0.1849 | 0.33 | 0.061017 | 14.03 |
| 30 | 0.1847 | 0.34 | 0.062798 | 14.10 |
| 31 | 0.1857 | 0.34 | 0.063138 | 14.08 |
| 32 | 0.1865 | 0.34 | 0.06341 | 14.00 |
| 33 | 0.185 | 0.35 | 0.06475 | 14.14 |
| 34 | 0.1845 | 0.35 | 0.064575 | 13.97 |
| 35 | 0.1928 | 0.35 | 0.06748 | 13.81 |
| 36 | 0.1912 | 0.35 | 0.06692 | 14.11 |
| 37 | 0.1913 | 0.35 | 0.066955 | 14.01 |
| 38 | 0.1938 | 0.35 | 0.06783 | 14.11 |
| 39 | 0.1944 | 0.35 | 0.06804 | 14.11 |
| 40 | 0.1912 | 0.35 | 0.06692 | 14.35 |

| Paralel 110V Fan | | | | |
|------------------|----------|--------|----------|----------|
| Time | I | V | Daya | dT Rata2 |
| (menit) | (Ampere) | (Volt) | (Watt) | (°C) |
| 41 | 0.1922 | 0.35 | 0.06727 | 14.36 |
| 42 | 0.194 | 0.35 | 0.0679 | 14.47 |
| 43 | 0.1935 | 0.35 | 0.067725 | 14.60 |
| 44 | 0.1945 | 0.35 | 0.068075 | 14.23 |
| 45 | 0.1947 | 0.35 | 0.068145 | 14.09 |
| 46 | 0.1918 | 0.35 | 0.06713 | 14.20 |
| 47 | 0.1928 | 0.35 | 0.06748 | 14.15 |
| 48 | 0.1916 | 0.35 | 0.06706 | 14.14 |
| 49 | 0.1933 | 0.35 | 0.067655 | 14.37 |
| 50 | 0.1935 | 0.35 | 0.067725 | 13.96 |
| 51 | 0.1925 | 0.35 | 0.067375 | 14.13 |
| 52 | 0.1926 | 0.35 | 0.06741 | 14.00 |
| 53 | 0.1893 | 0.35 | 0.066255 | 14.02 |
| 54 | 0.1888 | 0.35 | 0.06608 | 13.78 |
| 55 | 0.1921 | 0.35 | 0.067235 | 13.82 |
| 56 | 0.1929 | 0.34 | 0.065586 | 14.00 |
| 57 | 0.1906 | 0.34 | 0.064804 | 13.89 |
| 58 | 0.1765 | 0.33 | 0.058245 | 13.91 |
| 59 | 0.1692 | 0.31 | 0.052452 | 12.96 |
| 60 | 0.1511 | 0.27 | 0.040797 | 11.73 |
| 61 | 0.1324 | 0.24 | 0.031776 | 10.60 |
| 62 | 0.1158 | 0.21 | 0.024318 | 9.03 |
| 63 | 0.1028 | 0.18 | 0.018504 | 8.24 |
| 64 | 0.0889 | 0.16 | 0.014224 | 7.36 |
| 65 | 0.0778 | 0.14 | 0.010892 | 6.37 |
| 66 | 0.0673 | 0.12 | 0.008076 | 5.63 |
| 67 | 0.0598 | 0.11 | 0.006578 | 4.85 |
| 68 | 0.0485 | 0.09 | 0.004365 | 4.25 |
| 69 | 0.0434 | 0.08 | 0.003472 | 3.93 |
| 70 | 0.0386 | 0.07 | 0.002702 | 3.47 |
| 71 | 0.0347 | 0.06 | 0.002082 | 3.08 |
| 72 | 0.0309 | 0.05 | 0.001545 | 2.83 |
| 73 | 0.0269 | 0.04 | 0.001076 | 2.40 |
| 74 | 0.023 | 0.04 | 0.00092 | 2.08 |
| 75 | 0.0201 | 0.03 | 0.000603 | 1.94 |
| 76 | 0.0174 | 0.03 | 0.000522 | 1.76 |
| 77 | 0.0156 | 0.02 | 0.000312 | 1.65 |
| 78 | 0.0136 | 0.02 | 0.000272 | 1.54 |
| 79 | 0.0114 | 0.02 | 0.000228 | 1.29 |
| 80 | 0.0098 | 0.01 | 0.000098 | 1.18 |

| Seri 220V Fan | | | | |
|---------------|----------|--------|----------|----------|
| Time | I | V | Daya | dT Rata2 |
| (menit) | (Ampere) | (Volt) | (Watt) | (oC) |
| 1 | 0.0336 | 1.32 | 0.044352 | 1.87 |
| 2 | 0.0919 | 3.5 | 0.32165 | 6.17 |
| 3 | 0.1339 | 5.58 | 0.747162 | 10.95 |
| 4 | 0.178 | 7.38 | 1.31364 | 15.75 |
| 5 | 0.195 | 8.01 | 1.56195 | 20.28 |
| 6 | 0.233 | 8.55 | 1.99215 | 24.33 |
| 7 | 0.29 | 10.02 | 2.8217 | 27.47 |
| 8 | 0.32 | 10.78 | 3.2032 | 30.36 |
| 9 | 0.33 | 11.11 | 3.3693 | 32.78 |
| 10 | 0.36 | 12.28 | 3.7728 | 34.98 |
| 11 | 0.38 | 12.63 | 4.0394 | 36.52 |
| 12 | 0.38 | 13.58 | 4.0204 | 37.70 |
| 13 | 0.38 | 14.95 | 5.681 | 39.12 |
| 14 | 0.4 | 15.33 | 6.132 | 39.56 |
| 15 | 0.39 | 15.35 | 5.9865 | 39.92 |
| 16 | 0.38 | 15.52 | 5.8976 | 40.25 |
| 17 | 0.42 | 16.08 | 6.7536 | 41.10 |
| 18 | 0.42 | 16.36 | 6.8712 | 41.85 |
| 19 | 0.38 | 16.48 | 6.2624 | 42.29 |
| 20 | 0.37 | 16.64 | 6.1568 | 42.44 |
| 21 | 0.39 | 16.61 | 6.4779 | 42.52 |
| 22 | 0.41 | 16.98 | 6.9618 | 40.91 |
| 23 | 0.4 | 17.02 | 6.808 | 41.20 |
| 24 | 0.4 | 17.12 | 6.848 | 41.50 |
| 25 | 0.39 | 17.1 | 6.669 | 41.55 |
| 26 | 0.41 | 17.18 | 7.0438 | 41.84 |
| 27 | 0.41 | 17.22 | 7.0602 | 41.70 |
| 28 | 0.4 | 17.41 | 6.964 | 42.23 |
| 29 | 0.4 | 17.32 | 6.928 | 42.29 |
| 30 | 0.41 | 17.33 | 7.1053 | 40.56 |
| 31 | 0.39 | 17.28 | 6.7392 | 42.33 |
| 32 | 0.44 | 17.49 | 7.6956 | 42.71 |
| 33 | 0.46 | 17.64 | 8.1144 | 42.82 |
| 34 | 0.44 | 17.66 | 7.7704 | 42.76 |
| 35 | 0.42 | 17.52 | 7.2744 | 42.95 |
| 36 | 0.41 | 17.54 | 7.1094 | 43.75 |
| 37 | 0.4 | 17.53 | 6.932 | 43.44 |
| 38 | 0.39 | 17.51 | 6.7509 | 44.31 |
| 39 | 0.4 | 17.61 | 6.964 | 43.74 |
| 40 | 0.41 | 17.69 | 7.1709 | 42.92 |

| Seri 220V Fan | | | | |
|---------------|----------|--------|----------|----------|
| Time | I | V | Daya | dT Rata2 |
| (menit) | (Ampere) | (Volt) | (Watt) | (oC) |
| 41 | 0.42 | 17.52 | 7.3584 | 42.63 |
| 42 | 0.43 | 17.78 | 7.6454 | 42.84 |
| 43 | 0.43 | 17.8 | 7.654 | 42.80 |
| 44 | 0.44 | 17.82 | 7.8408 | 42.62 |
| 45 | 0.41 | 17.87 | 7.3267 | 42.69 |
| 46 | 0.4 | 17.75 | 7.1 | 42.52 |
| 47 | 0.41 | 17.79 | 7.2939 | 42.65 |
| 48 | 0.42 | 17.85 | 7.497 | 42.75 |
| 49 | 0.42 | 17.8 | 7.476 | 42.61 |
| 50 | 0.4 | 17.85 | 7.14 | 42.78 |
| 51 | 0.39 | 17.8 | 6.942 | 42.44 |
| 52 | 0.41 | 17.82 | 7.3062 | 42.61 |
| 53 | 0.43 | 17.89 | 7.6927 | 42.75 |
| 54 | 0.42 | 17.85 | 7.497 | 42.67 |
| 55 | 0.43 | 17.87 | 7.6841 | 42.94 |
| 56 | 0.43 | 17.82 | 7.6626 | 42.98 |
| 57 | 0.42 | 17.81 | 7.4802 | 42.77 |
| 58 | 0.43 | 17.89 | 7.6927 | 42.92 |
| 59 | 0.44 | 17.95 | 7.898 | 42.85 |
| 60 | 0.44 | 18 | 7.92 | 42.95 |
| 61 | 0.41 | 17.58 | 7.2078 | 40.44 |
| 62 | 0.38 | 15.82 | 6.0116 | 38.94 |
| 63 | 0.34 | 14.01 | 4.7634 | 35.05 |
| 64 | 0.3 | 12.21 | 3.663 | 31.01 |
| 65 | 0.26 | 10.56 | 2.7456 | 27.15 |
| 66 | 0.23 | 9.13 | 2.0999 | 23.67 |
| 67 | 0.21 | 7.85 | 1.6485 | 20.40 |
| 68 | 0.1703 | 6.71 | 1.142713 | 17.66 |
| 69 | 0.1522 | 5.88 | 0.894936 | 15.21 |
| 70 | 0.1346 | 5.17 | 0.695882 | 13.07 |
| 71 | 0.1202 | 4.31 | 0.518062 | 11.22 |
| 72 | 0.1025 | 3.68 | 0.3772 | 9.62 |
| 73 | 0.0909 | 3.18 | 0.289062 | 8.12 |
| 74 | 0.0762 | 2.74 | 0.208788 | 6.95 |
| 75 | 0.0685 | 2.38 | 0.16303 | 5.91 |
| 76 | 0.0564 | 2.05 | 0.11562 | 5.02 |
| 77 | 0.0495 | 1.73 | 0.085635 | 4.17 |
| 78 | 0.0437 | 1.49 | 0.065113 | 3.60 |
| 79 | 0.0362 | 1.31 | 0.047422 | 3.06 |
| 80 | 0.0321 | 1.12 | 0.035952 | 2.49 |

| Paralel 220V Fan | | | | |
|------------------|----------|--------|----------|----------|
| Time | I | V | Daya | dT Rata2 |
| (menit) | (Ampere) | (Volt) | (Watt) | (oC) |
| 1 | 0.0271 | 0.089 | 0.002412 | 0.29 |
| 2 | 0.0811 | 0.205 | 0.016626 | 5.43 |
| 3 | 0.176 | 0.324 | 0.057024 | 9.57 |
| 4 | 0.192 | 0.442 | 0.084864 | 15.31 |
| 5 | 0.358 | 0.553 | 0.197974 | 19.66 |
| 6 | 0.45 | 0.623 | 0.28035 | 22.42 |
| 7 | 0.56 | 0.668 | 0.37408 | 23.71 |
| 8 | 0.72 | 0.795 | 0.5724 | 25.77 |
| 9 | 0.85 | 0.873 | 0.74205 | 28.64 |
| 10 | 1.11 | 0.932 | 1.03452 | 30.92 |
| 11 | 1.18 | 0.989 | 1.16702 | 32.21 |
| 12 | 1.21 | 1.055 | 1.27655 | 34.38 |
| 13 | 1.24 | 1.069 | 1.32556 | 35.92 |
| 14 | 1.26 | 1.088 | 1.37088 | 38.28 |
| 15 | 1.28 | 1.102 | 1.41056 | 38.52 |
| 16 | 1.29 | 1.119 | 1.44351 | 40.05 |
| 17 | 1.32 | 1.138 | 1.50216 | 40.04 |
| 18 | 1.35 | 1.161 | 1.56735 | 41.04 |
| 19 | 1.36 | 1.175 | 1.598 | 41.46 |
| 20 | 1.34 | 1.192 | 1.59728 | 41.59 |
| 21 | 1.37 | 1.201 | 1.64537 | 41.49 |
| 22 | 1.34 | 1.201 | 1.60934 | 40.56 |
| 23 | 1.37 | 1.204 | 1.64948 | 40.25 |
| 24 | 1.38 | 1.214 | 1.67532 | 42.43 |
| 25 | 1.41 | 1.232 | 1.73712 | 40.75 |
| 26 | 1.42 | 1.237 | 1.75654 | 40.49 |
| 27 | 1.41 | 1.249 | 1.76109 | 41.07 |
| 28 | 1.43 | 1.269 | 1.81467 | 41.26 |
| 29 | 1.44 | 1.272 | 1.83168 | 41.31 |
| 30 | 1.44 | 1.289 | 1.85616 | 41.85 |
| 31 | 1.46 | 1.294 | 1.88924 | 41.20 |
| 32 | 1.46 | 1.296 | 1.89216 | 41.49 |
| 33 | 1.45 | 1.305 | 1.89225 | 42.80 |
| 34 | 1.44 | 1.286 | 1.85184 | 43.39 |
| 35 | 1.46 | 1.292 | 1.88632 | 43.29 |
| 36 | 1.49 | 1.327 | 1.97723 | 43.33 |
| 37 | 1.54 | 1.377 | 2.12058 | 43.03 |
| 38 | 1.55 | 1.388 | 2.1514 | 42.74 |
| 39 | 1.56 | 1.401 | 2.18556 | 42.18 |
| 40 | 1.55 | 1.393 | 2.15915 | 41.90 |

| Paralel 220V Fan | | | | |
|------------------|----------|--------|----------|----------|
| Time | I | V | Daya | dT Rata2 |
| (menit) | (Ampere) | (Volt) | (Watt) | (oC) |
| 41 | 1.53 | 1.392 | 2.12976 | 41.87 |
| 42 | 1.47 | 1.359 | 1.99773 | 41.43 |
| 43 | 1.51 | 1.365 | 2.06115 | 40.90 |
| 44 | 1.48 | 1.362 | 2.01576 | 40.85 |
| 45 | 1.49 | 1.462 | 2.17838 | 41.73 |
| 46 | 1.48 | 1.383 | 2.04684 | 41.70 |
| 47 | 1.52 | 1.342 | 2.03984 | 41.05 |
| 48 | 1.52 | 1.348 | 2.04896 | 42.00 |
| 49 | 1.53 | 1.357 | 2.07621 | 42.65 |
| 50 | 1.54 | 1.372 | 2.11288 | 42.95 |
| 51 | 1.52 | 1.37 | 2.0824 | 42.87 |
| 52 | 1.51 | 1.356 | 2.04756 | 43.52 |
| 53 | 1.58 | 1.396 | 2.20568 | 42.96 |
| 54 | 1.56 | 1.39 | 2.1684 | 41.38 |
| 55 | 1.54 | 1.38 | 2.1252 | 41.30 |
| 56 | 1.54 | 1.378 | 2.12212 | 41.42 |
| 57 | 1.51 | 1.369 | 2.06719 | 41.64 |
| 58 | 1.49 | 1.374 | 2.04726 | 40.11 |
| 59 | 1.54 | 1.364 | 2.10056 | 40.82 |
| 60 | 1.52 | 1.362 | 2.07024 | 40.16 |
| 61 | 1.48 | 1.312 | 1.94176 | 38.70 |
| 62 | 1.33 | 1.192 | 1.58536 | 37.22 |
| 63 | 1.22 | 1.049 | 1.27978 | 33.79 |
| 64 | 1.13 | 0.911 | 1.02943 | 29.42 |
| 65 | 0.97 | 0.803 | 0.77891 | 26.10 |
| 66 | 0.85 | 0.728 | 0.6188 | 22.71 |
| 67 | 0.76 | 0.61 | 0.4636 | 19.33 |
| 68 | 0.65 | 0.553 | 0.35945 | 16.65 |
| 69 | 0.53 | 0.462 | 0.24486 | 14.45 |
| 70 | 0.47 | 0.378 | 0.17766 | 12.38 |
| 71 | 0.39 | 0.331 | 0.12909 | 10.45 |
| 72 | 0.35 | 0.285 | 0.09975 | 9.04 |
| 73 | 0.29 | 0.246 | 0.07134 | 7.95 |
| 74 | 0.25 | 0.211 | 0.05275 | 6.88 |
| 75 | 0.22 | 0.179 | 0.03938 | 5.87 |
| 76 | 0.19 | 0.161 | 0.03059 | 5.01 |
| 77 | 0.16 | 0.129 | 0.02064 | 4.26 |
| 78 | 0.14 | 0.107 | 0.01498 | 3.54 |
| 79 | 0.11 | 0.095 | 0.01045 | 2.86 |
| 80 | 0.067 | 0.083 | 0.005561 | 2.49 |

LAMPIRAN 2 Data Pengujian Dengan Variasi Tegangan Heater, Susunan Peltier, Tanpa Fan

| Seri 110V non Fan | | | | |
|-------------------|----------|--------|----------|----------|
| Time | I | V | Daya | dT Rata2 |
| (menit) | (Ampere) | (Volt) | (Watt) | (°C) |
| 1 | 0.0114 | 0.338 | 0.003853 | 0.83 |
| 2 | 0.0214 | 0.714 | 0.01528 | 1.54 |
| 3 | 0.0303 | 1.092 | 0.033088 | 3.26 |
| 4 | 0.0363 | 1.416 | 0.051401 | 4.48 |
| 5 | 0.0434 | 1.69 | 0.073346 | 5.68 |
| 6 | 0.0446 | 1.77 | 0.078942 | 6.52 |
| 7 | 0.0481 | 1.99 | 0.095719 | 7.01 |
| 8 | 0.0516 | 2.09 | 0.107844 | 7.68 |
| 9 | 0.0523 | 2.22 | 0.116106 | 8.22 |
| 10 | 0.0556 | 2.4 | 0.13344 | 8.87 |
| 11 | 0.0581 | 2.42 | 0.140602 | 8.44 |
| 12 | 0.0613 | 2.55 | 0.156315 | 9.27 |
| 13 | 0.0649 | 2.66 | 0.172634 | 9.72 |
| 14 | 0.0639 | 2.76 | 0.176364 | 10.01 |
| 15 | 0.0638 | 2.81 | 0.179278 | 10.39 |
| 16 | 0.0618 | 2.88 | 0.177984 | 10.71 |
| 17 | 0.0655 | 2.95 | 0.193225 | 11.03 |
| 18 | 0.0661 | 3.05 | 0.201605 | 11.17 |
| 19 | 0.0654 | 3.1 | 0.20274 | 11.34 |
| 20 | 0.0691 | 3.19 | 0.220429 | 11.65 |
| 21 | 0.0723 | 3.24 | 0.234252 | 11.73 |
| 22 | 0.0745 | 3.27 | 0.243615 | 11.90 |
| 23 | 0.0751 | 3.31 | 0.248581 | 12.14 |
| 24 | 0.0721 | 3.41 | 0.245861 | 12.38 |
| 25 | 0.0756 | 3.43 | 0.259308 | 12.58 |
| 26 | 0.076 | 3.48 | 0.26448 | 12.74 |
| 27 | 0.0779 | 3.56 | 0.277324 | 13.08 |
| 28 | 0.0792 | 3.6 | 0.28512 | 13.25 |
| 29 | 0.0813 | 3.63 | 0.295119 | 13.41 |
| 30 | 0.0823 | 3.57 | 0.293811 | 13.27 |
| 31 | 0.0817 | 3.64 | 0.297388 | 13.73 |
| 32 | 0.0829 | 3.72 | 0.308388 | 14.03 |
| 33 | 0.084 | 3.77 | 0.31668 | 14.12 |
| 34 | 0.0902 | 3.81 | 0.343662 | 14.42 |
| 35 | 0.0903 | 3.8 | 0.34314 | 14.51 |
| 36 | 0.0908 | 3.83 | 0.347764 | 14.71 |
| 37 | 0.0912 | 3.91 | 0.356592 | 14.90 |
| 38 | 0.0921 | 3.97 | 0.365637 | 15.06 |
| 39 | 0.0924 | 4.01 | 0.370524 | 15.04 |
| 40 | 0.0928 | 4.07 | 0.377696 | 15.09 |
| 41 | 0.0936 | 4.11 | 0.384696 | 15.21 |
| 42 | 0.0944 | 4.14 | 0.390816 | 15.33 |
| 43 | 0.0951 | 4.18 | 0.397518 | 15.48 |
| 44 | 0.0987 | 4.2 | 0.41454 | 15.56 |
| 45 | 0.0995 | 4.26 | 0.42387 | 15.71 |
| 46 | 0.1068 | 4.28 | 0.457104 | 15.86 |
| 47 | 0.1058 | 4.27 | 0.451766 | 15.70 |
| 48 | 0.1069 | 4.29 | 0.458601 | 16.23 |
| 49 | 0.1048 | 4.31 | 0.451688 | 16.17 |
| 50 | 0.1055 | 4.33 | 0.456815 | 15.83 |
| 51 | 0.1047 | 4.35 | 0.455445 | 15.85 |
| 52 | 0.1051 | 4.39 | 0.461389 | 16.10 |
| 53 | 0.1035 | 4.41 | 0.456435 | 15.97 |
| 54 | 0.1026 | 4.42 | 0.453492 | 15.98 |
| 55 | 0.1013 | 4.42 | 0.447746 | 16.22 |
| 56 | 0.1003 | 4.43 | 0.444329 | 16.30 |
| 57 | 0.1056 | 4.43 | 0.467808 | 16.34 |
| 58 | 0.1009 | 4.32 | 0.435888 | 16.28 |
| 59 | 0.1025 | 4.4 | 0.451 | 16.50 |
| 60 | 0.1027 | 4.39 | 0.450853 | 16.50 |

| Seri 110V non Fan | | | | |
|-------------------|----------|--------|----------|----------|
| Time | I | V | Daya | dT Rata2 |
| (menit) | (Ampere) | (Volt) | (Watt) | (°C) |
| 61 | 0.0992 | 4.26 | 0.422592 | 16.20 |
| 62 | 0.0906 | 3.88 | 0.351528 | 14.25 |
| 63 | 0.0819 | 3.57 | 0.292383 | 13.82 |
| 64 | 0.0764 | 3.23 | 0.246772 | 12.76 |
| 65 | 0.0705 | 3.02 | 0.21291 | 11.73 |
| 66 | 0.0631 | 2.7 | 0.17037 | 10.86 |
| 67 | 0.0594 | 2.47 | 0.146718 | 10.03 |
| 68 | 0.0564 | 2.34 | 0.131976 | 9.45 |
| 69 | 0.0536 | 2.23 | 0.119528 | 8.86 |
| 70 | 0.0525 | 2.12 | 0.1113 | 8.37 |
| 71 | 0.0497 | 2.03 | 0.100891 | 7.96 |
| 72 | 0.0482 | 1.96 | 0.094472 | 7.64 |
| 73 | 0.0463 | 1.84 | 0.085192 | 7.33 |
| 74 | 0.0428 | 1.68 | 0.071904 | 7.05 |
| 75 | 0.0407 | 1.61 | 0.065527 | 6.91 |
| 76 | 0.0388 | 1.52 | 0.058976 | 6.71 |
| 77 | 0.0375 | 1.47 | 0.055125 | 6.54 |
| 78 | 0.036 | 1.4 | 0.0504 | 6.23 |
| 79 | 0.0343 | 1.34 | 0.045962 | 6.10 |
| 80 | 0.0332 | 1.27 | 0.042164 | 5.97 |
| 81 | 0.0326 | 1.22 | 0.039772 | 5.81 |
| 82 | 0.0312 | 1.17 | 0.036504 | 5.60 |
| 83 | 0.0305 | 1.13 | 0.034465 | 5.44 |
| 84 | 0.0297 | 1.12 | 0.033264 | 5.22 |
| 85 | 0.0287 | 1.13 | 0.032431 | 5.02 |
| 86 | 0.0294 | 1.1 | 0.03234 | 4.76 |
| 87 | 0.0276 | 1.06 | 0.029256 | 4.66 |
| 88 | 0.0268 | 0.98 | 0.026264 | 4.54 |
| 89 | 0.0256 | 0.93 | 0.023808 | 4.31 |
| 90 | 0.0234 | 0.88 | 0.020592 | 4.19 |
| 91 | 0.023 | 0.83 | 0.01909 | 4.00 |
| 92 | 0.0228 | 0.82 | 0.018696 | 3.98 |
| 93 | 0.0213 | 0.79 | 0.016827 | 3.93 |
| 94 | 0.0209 | 0.75 | 0.015675 | 3.80 |
| 95 | 0.0202 | 0.73 | 0.014746 | 3.61 |
| 96 | 0.0198 | 0.72 | 0.014256 | 3.57 |
| 97 | 0.0202 | 0.73 | 0.014746 | 3.44 |
| 98 | 0.0206 | 0.74 | 0.015244 | 3.19 |
| 99 | 0.0195 | 0.71 | 0.013845 | 3.14 |
| 100 | 0.0196 | 0.71 | 0.013916 | 2.98 |
| 101 | 0.0188 | 0.69 | 0.012972 | 2.90 |
| 102 | 0.0184 | 0.68 | 0.012512 | 2.92 |
| 103 | 0.0175 | 0.66 | 0.01155 | 2.83 |
| 104 | 0.0166 | 0.63 | 0.010458 | 2.68 |
| 105 | 0.0166 | 0.61 | 0.010126 | 2.46 |
| 106 | 0.0155 | 0.58 | 0.00899 | 2.48 |
| 107 | 0.0155 | 0.56 | 0.00868 | 2.37 |
| 108 | 0.0149 | 0.53 | 0.007897 | 2.35 |
| 109 | 0.0141 | 0.53 | 0.007473 | 2.31 |
| 110 | 0.0133 | 0.5 | 0.00665 | 2.20 |
| 111 | 0.0127 | 0.47 | 0.005969 | 2.12 |
| 112 | 0.0128 | 0.49 | 0.006272 | 2.14 |
| 113 | 0.0129 | 0.5 | 0.00645 | 2.13 |
| 114 | 0.0126 | 0.49 | 0.006174 | 1.98 |
| 115 | 0.0122 | 0.46 | 0.005612 | 1.87 |
| 116 | 0.0118 | 0.46 | 0.005428 | 1.83 |
| 117 | 0.0115 | 0.45 | 0.005175 | 1.85 |
| 118 | 0.011 | 0.43 | 0.00473 | 1.74 |
| 119 | 0.0104 | 0.42 | 0.004368 | 1.69 |
| 120 | 0.0097 | 0.4 | 0.00388 | 1.68 |

| Paralel 110V non Fan | | | | |
|----------------------|----------|--------|----------|----------|
| Time | I | V | Daya | dT Rata2 |
| (menit) | (Ampere) | (Volt) | (Watt) | (°C) |
| 1 | 0.0121 | 0.02 | 0.000242 | 0.91 |
| 2 | 0.0309 | 0.04 | 0.001236 | 1.72 |
| 3 | 0.0476 | 0.08 | 0.003808 | 2.81 |
| 4 | 0.0638 | 0.11 | 0.007018 | 3.81 |
| 5 | 0.0762 | 0.13 | 0.009906 | 4.81 |
| 6 | 0.0868 | 0.15 | 0.01302 | 5.68 |
| 7 | 0.0895 | 0.16 | 0.01432 | 6.20 |
| 8 | 0.0986 | 0.18 | 0.017748 | 6.93 |
| 9 | 0.1045 | 0.19 | 0.019855 | 7.53 |
| 10 | 0.1068 | 0.2 | 0.02136 | 8.01 |
| 11 | 0.1154 | 0.2 | 0.02308 | 8.41 |
| 12 | 0.1183 | 0.21 | 0.024843 | 8.79 |
| 13 | 0.1196 | 0.22 | 0.026312 | 9.21 |
| 14 | 0.1252 | 0.23 | 0.028796 | 9.60 |
| 15 | 0.1287 | 0.23 | 0.029601 | 10.11 |
| 16 | 0.1312 | 0.24 | 0.031488 | 10.33 |
| 17 | 0.1322 | 0.24 | 0.031728 | 10.68 |
| 18 | 0.1344 | 0.24 | 0.032256 | 11.02 |
| 19 | 0.1389 | 0.25 | 0.034725 | 11.44 |
| 20 | 0.1402 | 0.26 | 0.036452 | 11.81 |
| 21 | 0.1417 | 0.26 | 0.036842 | 12.13 |
| 22 | 0.1438 | 0.26 | 0.037388 | 12.32 |
| 23 | 0.1461 | 0.27 | 0.039447 | 12.63 |
| 24 | 0.1504 | 0.27 | 0.040608 | 11.75 |
| 25 | 0.151 | 0.28 | 0.04228 | 12.90 |
| 26 | 0.1549 | 0.29 | 0.044921 | 13.50 |
| 27 | 0.1561 | 0.3 | 0.04683 | 13.33 |
| 28 | 0.1569 | 0.301 | 0.047227 | 14.55 |
| 29 | 0.1576 | 0.304 | 0.04791 | 14.44 |
| 30 | 0.1621 | 0.31 | 0.050251 | 14.16 |
| 31 | 0.1616 | 0.311 | 0.050258 | 14.75 |
| 32 | 0.1609 | 0.319 | 0.051327 | 14.84 |
| 33 | 0.1614 | 0.324 | 0.052294 | 14.63 |
| 34 | 0.1679 | 0.324 | 0.0544 | 14.61 |
| 35 | 0.1712 | 0.327 | 0.055982 | 14.86 |
| 36 | 0.1765 | 0.33 | 0.058245 | 14.58 |
| 37 | 0.1761 | 0.332 | 0.058465 | 14.82 |
| 38 | 0.1789 | 0.333 | 0.059574 | 15.58 |
| 39 | 0.1757 | 0.337 | 0.059211 | 16.14 |
| 40 | 0.1822 | 0.34 | 0.061948 | 15.13 |
| 41 | 0.1836 | 0.341 | 0.062608 | 15.85 |
| 42 | 0.1841 | 0.345 | 0.063515 | 15.61 |
| 43 | 0.1855 | 0.347 | 0.064369 | 15.83 |
| 44 | 0.1846 | 0.345 | 0.063687 | 16.07 |
| 45 | 0.1841 | 0.344 | 0.06333 | 16.54 |
| 46 | 0.1735 | 0.344 | 0.059684 | 16.17 |
| 47 | 0.1726 | 0.345 | 0.059547 | 16.73 |
| 48 | 0.1831 | 0.346 | 0.063353 | 16.45 |
| 49 | 0.1855 | 0.349 | 0.06474 | 17.40 |
| 50 | 0.1907 | 0.352 | 0.067126 | 17.86 |
| 51 | 0.1834 | 0.356 | 0.06529 | 17.32 |
| 52 | 0.1846 | 0.356 | 0.065718 | 17.60 |
| 53 | 0.1906 | 0.356 | 0.067854 | 17.32 |
| 54 | 0.1897 | 0.357 | 0.067723 | 17.04 |
| 55 | 0.1896 | 0.357 | 0.067687 | 16.80 |
| 56 | 0.1915 | 0.357 | 0.068366 | 16.61 |
| 57 | 0.1935 | 0.362 | 0.070047 | 17.53 |
| 58 | 0.1928 | 0.367 | 0.070758 | 17.57 |
| 59 | 0.1914 | 0.367 | 0.070244 | 17.51 |
| 60 | 0.1923 | 0.369 | 0.070959 | 16.84 |

| Paralel 110V non Fan | | | | |
|----------------------|----------|--------|----------|----------|
| Time | I | V | Daya | dT Rata2 |
| (menit) | (Ampere) | (Volt) | (Watt) | (°C) |
| 61 | 0.1646 | 0.359 | 0.059091 | 17.10 |
| 62 | 0.1501 | 0.328 | 0.049233 | 16.79 |
| 63 | 0.1488 | 0.299 | 0.044491 | 16.06 |
| 64 | 0.1376 | 0.268 | 0.036877 | 15.91 |
| 65 | 0.1281 | 0.249 | 0.031897 | 14.89 |
| 66 | 0.1112 | 0.224 | 0.024909 | 14.51 |
| 67 | 0.0971 | 0.201 | 0.019517 | 13.42 |
| 68 | 0.0839 | 0.184 | 0.015438 | 12.66 |
| 69 | 0.0823 | 0.174 | 0.01432 | 12.07 |
| 70 | 0.0809 | 0.165 | 0.013349 | 11.59 |
| 71 | 0.0806 | 0.157 | 0.012654 | 10.90 |
| 72 | 0.0799 | 0.148 | 0.011825 | 10.43 |
| 73 | 0.0733 | 0.143 | 0.010482 | 9.98 |
| 74 | 0.0682 | 0.137 | 0.009343 | 9.41 |
| 75 | 0.0672 | 0.133 | 0.008938 | 9.04 |
| 76 | 0.0668 | 0.131 | 0.008751 | 8.76 |
| 77 | 0.0665 | 0.126 | 0.008379 | 8.42 |
| 78 | 0.0642 | 0.12 | 0.007704 | 8.12 |
| 79 | 0.0546 | 0.116 | 0.006334 | 7.89 |
| 80 | 0.0543 | 0.111 | 0.006027 | 7.66 |
| 81 | 0.0534 | 0.107 | 0.005714 | 7.29 |
| 82 | 0.0517 | 0.1 | 0.00517 | 7.19 |
| 83 | 0.0513 | 0.097 | 0.004976 | 6.89 |
| 84 | 0.0491 | 0.094 | 0.004615 | 6.70 |
| 85 | 0.0457 | 0.09 | 0.004113 | 6.54 |
| 86 | 0.0442 | 0.088 | 0.00389 | 6.35 |
| 87 | 0.0427 | 0.083 | 0.003544 | 6.09 |
| 88 | 0.0414 | 0.078 | 0.003229 | 5.83 |
| 89 | 0.0406 | 0.078 | 0.003167 | 5.64 |
| 90 | 0.0395 | 0.075 | 0.002963 | 5.41 |
| 91 | 0.0361 | 0.074 | 0.002671 | 5.32 |
| 92 | 0.0359 | 0.071 | 0.002549 | 5.07 |
| 93 | 0.0357 | 0.069 | 0.002463 | 4.85 |
| 94 | 0.0349 | 0.066 | 0.002303 | 4.66 |
| 95 | 0.0336 | 0.063 | 0.002117 | 4.54 |
| 96 | 0.0327 | 0.061 | 0.001995 | 4.52 |
| 97 | 0.0308 | 0.058 | 0.001786 | 4.37 |
| 98 | 0.0303 | 0.057 | 0.001727 | 4.15 |
| 99 | 0.0291 | 0.056 | 0.00163 | 4.14 |
| 100 | 0.0275 | 0.055 | 0.001513 | 4.02 |
| 101 | 0.0262 | 0.053 | 0.001389 | 3.90 |
| 102 | 0.0259 | 0.052 | 0.001347 | 3.79 |
| 103 | 0.0256 | 0.05 | 0.00128 | 3.67 |
| 104 | 0.0255 | 0.049 | 0.00125 | 3.52 |
| 105 | 0.0252 | 0.046 | 0.001159 | 3.37 |
| 106 | 0.0245 | 0.045 | 0.001103 | 3.33 |
| 107 | 0.0232 | 0.045 | 0.001044 | 3.31 |
| 108 | 0.0223 | 0.042 | 0.000937 | 3.13 |
| 109 | 0.0219 | 0.039 | 0.000854 | 3.22 |
| 110 | 0.0216 | 0.038 | 0.000821 | 3.07 |
| 111 | 0.0206 | 0.037 | 0.000762 | 3.00 |
| 112 | 0.0201 | 0.036 | 0.000724 | 2.85 |
| 113 | 0.0194 | 0.035 | 0.000679 | 2.87 |
| 114 | 0.0182 | 0.033 | 0.000601 | 2.80 |
| 115 | 0.018 | 0.033 | 0.000594 | 2.65 |
| 116 | 0.0174 | 0.032 | 0.000557 | 2.67 |
| 117 | 0.0172 | 0.031 | 0.000533 | 2.50 |
| 118 | 0.0169 | 0.03 | 0.000507 | 2.48 |
| 119 | 0.0147 | 0.03 | 0.000441 | 2.41 |
| 120 | 0.0134 | 0.029 | 0.000389 | 1.94 |

| Seri 220V non Fan | | | | |
|-------------------|----------|--------|----------|----------|
| Time | I | V | Daya | dT Rata2 |
| (menit) | (Ampere) | (Volt) | (Watt) | (°C) |
| 1 | 0.0331 | 0.96 | 0.031776 | 2.08 |
| 2 | 0.0774 | 2.59 | 0.200466 | 6.19 |
| 3 | 0.1163 | 4.19 | 0.487297 | 10.51 |
| 4 | 0.1437 | 5.57 | 0.800409 | 14.72 |
| 5 | 0.1622 | 6.71 | 1.088362 | 18.31 |
| 6 | 0.1733 | 7.55 | 1.308415 | 21.88 |
| 7 | 0.1794 | 8.21 | 1.472874 | 25.80 |
| 8 | 0.1862 | 8.64 | 1.608768 | 28.35 |
| 9 | 0.1923 | 9.09 | 1.748007 | 30.70 |
| 10 | 0.2 | 9.24 | 1.848 | 32.56 |
| 11 | 0.21 | 9.68 | 2.0328 | 35.16 |
| 12 | 0.21 | 10.05 | 2.1105 | 37.10 |
| 13 | 0.23 | 10.57 | 2.4311 | 37.95 |
| 14 | 0.21 | 10.63 | 2.2323 | 39.54 |
| 15 | 0.23 | 10.85 | 2.4955 | 40.44 |
| 16 | 0.2 | 10.95 | 2.19 | 40.94 |
| 17 | 0.22 | 11.09 | 2.4398 | 41.29 |
| 18 | 0.23 | 11.12 | 2.5576 | 42.47 |
| 19 | 0.22 | 11 | 2.4222 | 43.70 |
| 20 | 0.23 | 11.23 | 2.5829 | 44.15 |
| 21 | 0.22 | 11.39 | 2.5058 | 43.94 |
| 22 | 0.23 | 11.4 | 2.622 | 44.62 |
| 23 | 0.23 | 11.43 | 2.6289 | 44.31 |
| 24 | 0.24 | 11.48 | 2.7552 | 44.48 |
| 25 | 0.26 | 11.56 | 3.0056 | 45.38 |
| 26 | 0.25 | 11.61 | 2.9025 | 46.67 |
| 27 | 0.25 | 11.62 | 2.905 | 44.97 |
| 28 | 0.25 | 11.63 | 2.9075 | 45.24 |
| 29 | 0.26 | 11.65 | 3.029 | 45.70 |
| 30 | 0.26 | 11.67 | 3.0342 | 43.83 |
| 31 | 0.26 | 11.63 | 3.0238 | 44.50 |
| 32 | 0.26 | 11.58 | 3.0108 | 46.79 |
| 33 | 0.26 | 11.6 | 3.016 | 47.39 |
| 34 | 0.25 | 11.42 | 2.855 | 47.10 |
| 35 | 0.25 | 11.41 | 2.8525 | 47.69 |
| 36 | 0.26 | 11.41 | 2.9666 | 47.40 |
| 37 | 0.25 | 11.49 | 2.8725 | 47.56 |
| 38 | 0.24 | 11.32 | 2.7168 | 48.82 |
| 39 | 0.24 | 11.41 | 2.7384 | 48.68 |
| 40 | 0.24 | 11.41 | 2.7384 | 47.99 |
| 41 | 0.26 | 11.46 | 2.9796 | 47.79 |
| 42 | 0.25 | 11.43 | 2.8575 | 48.27 |
| 43 | 0.24 | 11.42 | 2.7408 | 48.81 |
| 44 | 0.25 | 11.44 | 2.86 | 48.64 |
| 45 | 0.26 | 11.42 | 2.9692 | 49.22 |
| 46 | 0.24 | 11.42 | 2.7408 | 49.63 |
| 47 | 0.24 | 11.48 | 2.7552 | 50.84 |
| 48 | 0.25 | 11.49 | 2.8725 | 49.96 |
| 49 | 0.24 | 11.41 | 2.7384 | 50.66 |
| 50 | 0.24 | 11.41 | 2.7384 | 50.65 |
| 51 | 0.24 | 11.35 | 2.724 | 49.03 |
| 52 | 0.25 | 11.39 | 2.8475 | 49.08 |
| 53 | 0.25 | 11.34 | 2.835 | 50.32 |
| 54 | 0.26 | 11.3 | 2.938 | 49.90 |
| 55 | 0.26 | 11.38 | 2.9588 | 50.28 |
| 56 | 0.27 | 11.42 | 3.0834 | 50.46 |
| 57 | 0.25 | 11.32 | 2.83 | 50.81 |
| 58 | 0.25 | 11.38 | 2.845 | 50.58 |
| 59 | 0.24 | 11.68 | 2.8032 | 51.43 |
| 60 | 0.25 | 11.23 | 2.8075 | 50.92 |

| Seri 220V non Fan | | | | |
|-------------------|----------|--------|----------|----------|
| Time | I | V | Daya | dT Rata2 |
| (menit) | (Ampere) | (Volt) | (Watt) | (°C) |
| 61 | 0.24 | 10.54 | 2.5296 | 51.13 |
| 62 | 0.24 | 9.16 | 2.1984 | 49.31 |
| 63 | 0.1723 | 8.13 | 1.400799 | 45.46 |
| 64 | 0.1685 | 7.27 | 1.224995 | 40.86 |
| 65 | 0.1605 | 6.71 | 1.076955 | 37.65 |
| 66 | 0.1534 | 6.19 | 0.949546 | 34.73 |
| 67 | 0.1468 | 5.92 | 0.869056 | 32.66 |
| 68 | 0.1402 | 5.67 | 0.794934 | 30.67 |
| 69 | 0.1295 | 5.23 | 0.677285 | 28.75 |
| 70 | 0.1196 | 5.04 | 0.602784 | 28.73 |
| 71 | 0.1115 | 4.98 | 0.55527 | 27.89 |
| 72 | 0.1052 | 4.51 | 0.474452 | 26.26 |
| 73 | 0.1013 | 4.13 | 0.418369 | 24.38 |
| 74 | 0.0916 | 3.75 | 0.3435 | 23.39 |
| 75 | 0.0897 | 3.44 | 0.308568 | 22.20 |
| 76 | 0.0827 | 3.38 | 0.279526 | 21.07 |
| 77 | 0.0806 | 3.25 | 0.26195 | 20.59 |
| 78 | 0.0769 | 3.01 | 0.231469 | 19.52 |
| 79 | 0.0723 | 2.88 | 0.208224 | 18.78 |
| 80 | 0.0732 | 2.69 | 0.196908 | 16.83 |
| 81 | 0.0713 | 2.51 | 0.178963 | 17.40 |
| 82 | 0.0689 | 2.49 | 0.171561 | 16.50 |
| 83 | 0.0662 | 2.41 | 0.159542 | 15.62 |
| 84 | 0.0645 | 2.34 | 0.15093 | 14.66 |
| 85 | 0.0612 | 2.22 | 0.135864 | 12.99 |
| 86 | 0.0589 | 2.2 | 0.12958 | 11.94 |
| 87 | 0.0554 | 2.08 | 0.115232 | 11.37 |
| 88 | 0.0532 | 1.96 | 0.104272 | 10.88 |
| 89 | 0.0526 | 1.91 | 0.100466 | 11.22 |
| 90 | 0.0501 | 1.88 | 0.094188 | 10.76 |
| 91 | 0.0487 | 1.74 | 0.084738 | 10.70 |
| 92 | 0.0487 | 1.56 | 0.075972 | 10.29 |
| 93 | 0.0468 | 1.44 | 0.067392 | 9.78 |
| 94 | 0.0442 | 1.36 | 0.060112 | 9.49 |
| 95 | 0.0431 | 1.24 | 0.053444 | 9.19 |
| 96 | 0.0421 | 1.2 | 0.05052 | 8.58 |
| 97 | 0.0415 | 1.17 | 0.048555 | 8.36 |
| 98 | 0.0385 | 1.11 | 0.042735 | 7.96 |
| 99 | 0.0361 | 1.06 | 0.038266 | 7.51 |
| 100 | 0.0324 | 0.98 | 0.031752 | 6.98 |
| 101 | 0.0321 | 0.94 | 0.030174 | 6.77 |
| 102 | 0.0318 | 0.91 | 0.028938 | 6.45 |
| 103 | 0.0312 | 0.88 | 0.027456 | 6.07 |
| 104 | 0.0311 | 0.85 | 0.026435 | 5.82 |
| 105 | 0.0305 | 0.83 | 0.025315 | 5.58 |
| 106 | 0.0303 | 0.79 | 0.023937 | 5.27 |
| 107 | 0.0303 | 0.76 | 0.023028 | 5.03 |
| 108 | 0.0295 | 0.73 | 0.021535 | 4.83 |
| 109 | 0.0291 | 0.73 | 0.021243 | 4.59 |
| 110 | 0.0282 | 0.71 | 0.020022 | 4.42 |
| 111 | 0.028 | 0.68 | 0.01904 | 4.23 |
| 112 | 0.0278 | 0.66 | 0.018348 | 4.10 |
| 113 | 0.0276 | 0.64 | 0.017664 | 3.83 |
| 114 | 0.0278 | 0.65 | 0.01807 | 3.70 |
| 115 | 0.0273 | 0.63 | 0.017199 | 3.71 |
| 116 | 0.0265 | 0.63 | 0.016695 | 3.48 |
| 117 | 0.0261 | 0.62 | 0.016182 | 3.43 |
| 118 | 0.0259 | 0.62 | 0.016058 | 3.23 |
| 119 | 0.0246 | 0.59 | 0.014514 | 3.17 |
| 120 | 0.0237 | 0.57 | 0.013509 | 3.05 |

| Paralel 220V non Fan | | | | |
|----------------------|----------|--------|----------|----------|
| Time | I | V | Daya | dT Rata2 |
| (menit) | (Ampere) | (Volt) | (Watt) | (°C) |
| 1 | 0.051 | 0.078 | 0.003978 | 0.38 |
| 2 | 0.122 | 0.204 | 0.024888 | 1.72 |
| 3 | 0.35 | 0.341 | 0.11935 | 5.97 |
| 4 | 0.54 | 0.477 | 0.25758 | 10.71 |
| 5 | 0.71 | 0.581 | 0.41251 | 15.02 |
| 6 | 0.79 | 0.655 | 0.51745 | 18.69 |
| 7 | 0.82 | 0.716 | 0.58712 | 21.63 |
| 8 | 0.91 | 0.766 | 0.69706 | 24.13 |
| 9 | 0.96 | 0.822 | 0.78912 | 26.00 |
| 10 | 1.01 | 0.859 | 0.86759 | 28.20 |
| 11 | 1.02 | 0.893 | 0.91086 | 33.36 |
| 12 | 1.02 | 0.921 | 0.93942 | 34.41 |
| 13 | 0.99 | 0.929 | 0.91971 | 35.53 |
| 14 | 1.01 | 0.914 | 0.92314 | 36.71 |
| 15 | 1.02 | 0.914 | 0.93228 | 37.51 |
| 16 | 1.03 | 0.917 | 0.94451 | 38.10 |
| 17 | 1.03 | 0.921 | 0.94863 | 40.92 |
| 18 | 1.02 | 0.924 | 0.94248 | 39.98 |
| 19 | 1.01 | 0.927 | 0.93627 | 40.94 |
| 20 | 1 | 0.931 | 0.931 | 41.72 |
| 21 | 1.01 | 0.934 | 0.94334 | 41.38 |
| 22 | 1.02 | 0.941 | 0.95982 | 42.08 |
| 23 | 1.02 | 0.952 | 0.97104 | 43.24 |
| 24 | 1.03 | 0.958 | 0.98674 | 43.65 |
| 25 | 1.03 | 0.961 | 0.98983 | 45.52 |
| 26 | 1.02 | 0.955 | 0.9741 | 45.42 |
| 27 | 1.01 | 0.952 | 0.96152 | 47.51 |
| 28 | 1.03 | 0.948 | 0.97644 | 47.51 |
| 29 | 1.03 | 0.968 | 0.99704 | 49.86 |
| 30 | 1.03 | 0.994 | 1.02382 | 46.61 |
| 31 | 1 | 1.012 | 1.012 | 46.51 |
| 32 | 0.99 | 0.997 | 0.98703 | 48.33 |
| 33 | 1 | 0.987 | 0.987 | 50.18 |
| 34 | 0.99 | 0.992 | 0.98208 | 52.05 |
| 35 | 0.98 | 0.99 | 0.9702 | 48.60 |
| 36 | 0.99 | 0.993 | 0.98307 | 49.01 |
| 37 | 0.98 | 0.991 | 0.97118 | 50.20 |
| 38 | 0.99 | 0.988 | 0.97812 | 50.15 |
| 39 | 0.99 | 0.949 | 0.93951 | 51.43 |
| 40 | 0.98 | 0.987 | 0.96726 | 50.46 |
| 41 | 1.02 | 0.982 | 1.00164 | 50.43 |
| 42 | 0.98 | 0.966 | 0.94668 | 50.82 |
| 43 | 1 | 0.967 | 0.967 | 50.23 |
| 44 | 1 | 0.963 | 0.963 | 50.96 |
| 45 | 0.98 | 0.957 | 0.93786 | 51.07 |
| 46 | 0.97 | 0.953 | 0.92441 | 51.51 |
| 47 | 0.99 | 0.955 | 0.94545 | 52.47 |
| 48 | 1.03 | 1.044 | 1.07532 | 54.84 |
| 49 | 1.03 | 1.064 | 1.09592 | 51.44 |
| 50 | 1.04 | 1.058 | 1.10032 | 50.70 |
| 51 | 0.99 | 1.054 | 1.04346 | 52.03 |
| 52 | 0.97 | 1.033 | 1.00201 | 51.07 |
| 53 | 0.98 | 1.018 | 0.99764 | 53.46 |
| 54 | 0.98 | 1.029 | 1.00842 | 51.01 |
| 55 | 1.01 | 1.043 | 1.05343 | 53.31 |
| 56 | 1.01 | 1.041 | 1.05141 | 52.06 |
| 57 | 1 | 1.045 | 1.045 | 50.93 |
| 58 | 1.01 | 1.044 | 1.05444 | 50.93 |
| 59 | 1 | 1.036 | 1.036 | 50.80 |
| 60 | 1.01 | 1.032 | 1.04232 | 50.99 |

| Paralel 220V non Fan | | | | |
|----------------------|----------|--------|----------|----------|
| Time | I | V | Daya | dT Rata2 |
| (menit) | (Ampere) | (Volt) | (Watt) | (°C) |
| 61 | 0.96 | 0.914 | 0.87744 | 53.76 |
| 62 | 0.88 | 0.875 | 0.77 | 49.60 |
| 63 | 0.81 | 0.813 | 0.65853 | 46.57 |
| 64 | 0.74 | 0.749 | 0.55426 | 42.88 |
| 65 | 0.69 | 0.709 | 0.48921 | 40.15 |
| 66 | 0.66 | 0.672 | 0.44352 | 37.48 |
| 67 | 0.63 | 0.651 | 0.41013 | 31.09 |
| 68 | 0.61 | 0.614 | 0.37454 | 31.63 |
| 69 | 0.59 | 0.584 | 0.34456 | 27.19 |
| 70 | 0.58 | 0.571 | 0.33118 | 26.22 |
| 71 | 0.55 | 0.537 | 0.29535 | 25.76 |
| 72 | 0.53 | 0.521 | 0.27613 | 24.70 |
| 73 | 0.52 | 0.511 | 0.26572 | 22.74 |
| 74 | 0.49 | 0.484 | 0.23716 | 20.33 |
| 75 | 0.47 | 0.468 | 0.21996 | 19.47 |
| 76 | 0.45 | 0.444 | 0.1998 | 18.91 |
| 77 | 0.44 | 0.429 | 0.18876 | 18.30 |
| 78 | 0.41 | 0.41 | 0.1681 | 17.47 |
| 79 | 0.39 | 0.383 | 0.14937 | 16.63 |
| 80 | 0.36 | 0.368 | 0.13248 | 15.67 |
| 81 | 0.34 | 0.354 | 0.12036 | 14.00 |
| 82 | 0.33 | 0.339 | 0.11187 | 12.95 |
| 83 | 0.33 | 0.321 | 0.10593 | 12.38 |
| 84 | 0.31 | 0.31 | 0.0961 | 11.89 |
| 85 | 0.3 | 0.298 | 0.0894 | 11.23 |
| 86 | 0.29 | 0.286 | 0.08294 | 10.77 |
| 87 | 0.28 | 0.271 | 0.07588 | 10.71 |
| 88 | 0.29 | 0.256 | 0.07424 | 10.30 |
| 89 | 0.25 | 0.246 | 0.0615 | 9.79 |
| 90 | 0.23 | 0.231 | 0.05313 | 9.50 |
| 91 | 0.23 | 0.22 | 0.0506 | 9.19 |
| 92 | 0.22 | 0.211 | 0.04642 | 8.59 |
| 93 | 0.2 | 0.202 | 0.0404 | 8.37 |
| 94 | 0.19 | 0.192 | 0.03648 | 7.97 |
| 95 | 0.17 | 0.182 | 0.03094 | 7.52 |
| 96 | 0.16 | 0.17 | 0.0272 | 6.99 |
| 97 | 0.15 | 0.163 | 0.02445 | 6.78 |
| 98 | 0.12 | 0.158 | 0.01896 | 6.46 |
| 99 | 0.11 | 0.151 | 0.01661 | 6.07 |
| 100 | 0.09 | 0.143 | 0.01287 | 5.83 |
| 101 | 0.07 | 0.136 | 0.00952 | 5.59 |
| 102 | 0.07 | 0.131 | 0.00917 | 5.28 |
| 103 | 0.065 | 0.123 | 0.007995 | 5.04 |
| 104 | 0.063 | 0.119 | 0.007497 | 4.84 |
| 105 | 0.06 | 0.113 | 0.00678 | 4.60 |
| 106 | 0.057 | 0.106 | 0.006042 | 4.43 |
| 107 | 0.054 | 0.102 | 0.005508 | 4.23 |
| 108 | 0.052 | 0.097 | 0.005044 | 4.11 |
| 109 | 0.049 | 0.093 | 0.004557 | 3.84 |
| 110 | 0.049 | 0.09 | 0.00441 | 3.71 |
| 111 | 0.048 | 0.088 | 0.004224 | 3.72 |
| 112 | 0.046 | 0.086 | 0.003956 | 3.49 |
| 113 | 0.045 | 0.083 | 0.003735 | 3.43 |
| 114 | 0.043 | 0.08 | 0.00344 | 3.24 |
| 115 | 0.042 | 0.078 | 0.003276 | 3.18 |
| 116 | 0.041 | 0.075 | 0.003075 | 3.06 |
| 117 | 0.04 | 0.073 | 0.00292 | 3.00 |
| 118 | 0.037 | 0.069 | 0.002553 | 2.95 |
| 119 | 0.036 | 0.066 | 0.002376 | 2.76 |
| 120 | 0.035 | 0.064 | 0.00224 | 2.57 |

LAMPIRAN 3 Data Pengujian Dengan Variasi Tegangan Heater, Susunan Peltier Seri-Paralel, dengan Fan

| Seri-Paralel 110V Fan | | | | |
|-----------------------|----------|--------|----------|----------|
| Time | I | V | Daya | dT Rata2 |
| (menit) | (Ampere) | (Volt) | (Watt) | (°C) |
| 1 | 0.0098 | 0.172 | 0.001686 | 2.97 |
| 2 | 0.0164 | 0.231 | 0.003788 | 3.21 |
| 3 | 0.0239 | 0.375 | 0.008963 | 3.68 |
| 4 | 0.0275 | 0.548 | 0.01507 | 4.39 |
| 5 | 0.0372 | 0.622 | 0.023138 | 5.75 |
| 6 | 0.0465 | 0.791 | 0.036782 | 6.83 |
| 7 | 0.0513 | 0.866 | 0.044426 | 7.84 |
| 8 | 0.0554 | 1.048 | 0.058059 | 8.39 |
| 9 | 0.0595 | 1.093 | 0.065034 | 9.43 |
| 10 | 0.0618 | 1.141 | 0.070514 | 9.12 |
| 11 | 0.0633 | 1.209 | 0.07653 | 9.31 |
| 12 | 0.0635 | 1.224 | 0.077724 | 9.95 |
| 13 | 0.0682 | 1.297 | 0.088455 | 10.06 |
| 14 | 0.0694 | 1.317 | 0.0914 | 10.68 |
| 15 | 0.0707 | 1.341 | 0.094809 | 10.77 |
| 16 | 0.0717 | 1.365 | 0.097871 | 10.78 |
| 17 | 0.0724 | 1.378 | 0.099767 | 10.75 |
| 18 | 0.0738 | 1.407 | 0.103837 | 10.83 |
| 19 | 0.0736 | 1.383 | 0.101789 | 10.97 |
| 20 | 0.0746 | 1.422 | 0.106081 | 11.15 |
| 21 | 0.0751 | 1.451 | 0.10897 | 11.53 |
| 22 | 0.0762 | 1.476 | 0.112471 | 11.33 |
| 23 | 0.0752 | 1.454 | 0.109341 | 11.68 |
| 24 | 0.0754 | 1.479 | 0.111517 | 11.60 |
| 25 | 0.0756 | 1.467 | 0.110905 | 11.61 |
| 26 | 0.077 | 1.496 | 0.115192 | 11.67 |
| 27 | 0.0766 | 1.469 | 0.112525 | 11.89 |
| 28 | 0.0768 | 1.453 | 0.11159 | 11.96 |
| 29 | 0.0772 | 1.474 | 0.113793 | 11.93 |
| 30 | 0.0765 | 1.458 | 0.111537 | 11.86 |
| 31 | 0.0778 | 1.452 | 0.112966 | 11.92 |
| 32 | 0.0751 | 1.449 | 0.10882 | 11.57 |
| 33 | 0.0759 | 1.476 | 0.112028 | 11.71 |
| 34 | 0.0764 | 1.497 | 0.114371 | 11.69 |
| 35 | 0.0768 | 1.499 | 0.115123 | 11.59 |
| 36 | 0.0772 | 1.49 | 0.115028 | 11.51 |
| 37 | 0.0774 | 1.493 | 0.115558 | 11.49 |
| 38 | 0.0777 | 1.465 | 0.113831 | 11.45 |
| 39 | 0.0771 | 1.469 | 0.11326 | 11.41 |
| 40 | 0.0772 | 1.454 | 0.112249 | 11.44 |

| Seri-Paralel 110V Fan | | | | |
|-----------------------|----------|--------|----------|----------|
| Time | I | V | Daya | dT Rata2 |
| (menit) | (Ampere) | (Volt) | (Watt) | (°C) |
| 41 | 0.0772 | 1.478 | 0.114102 | 11.45 |
| 42 | 0.077 | 1.481 | 0.114037 | 11.41 |
| 43 | 0.0768 | 1.488 | 0.114278 | 11.49 |
| 44 | 0.0764 | 1.492 | 0.113989 | 11.35 |
| 45 | 0.0765 | 1.486 | 0.113679 | 11.28 |
| 46 | 0.0765 | 1.493 | 0.114215 | 11.51 |
| 47 | 0.0765 | 1.497 | 0.114521 | 11.49 |
| 48 | 0.0769 | 1.469 | 0.112966 | 11.72 |
| 49 | 0.0773 | 1.472 | 0.113786 | 11.66 |
| 50 | 0.0774 | 1.488 | 0.115171 | 11.43 |
| 51 | 0.0772 | 1.454 | 0.112249 | 11.01 |
| 52 | 0.0772 | 1.459 | 0.112635 | 11.15 |
| 53 | 0.0778 | 1.477 | 0.114911 | 11.53 |
| 54 | 0.0791 | 1.483 | 0.117305 | 11.09 |
| 55 | 0.0789 | 1.492 | 0.117719 | 11.09 |
| 56 | 0.0783 | 1.492 | 0.116824 | 10.96 |
| 57 | 0.0784 | 1.493 | 0.117051 | 11.00 |
| 58 | 0.079 | 1.495 | 0.118105 | 11.03 |
| 59 | 0.0785 | 1.489 | 0.116887 | 11.00 |
| 60 | 0.0779 | 1.485 | 0.115682 | 11.04 |
| 61 | 0.0753 | 1.471 | 0.110766 | 10.23 |
| 62 | 0.0654 | 1.383 | 0.090448 | 10.11 |
| 63 | 0.0498 | 1.334 | 0.066433 | 9.45 |
| 64 | 0.0346 | 1.268 | 0.043873 | 8.49 |
| 65 | 0.0287 | 1.177 | 0.03378 | 7.56 |
| 66 | 0.0188 | 0.956 | 0.017973 | 7.18 |
| 67 | 0.0142 | 0.743 | 0.010551 | 6.84 |
| 68 | 0.0132 | 0.669 | 0.008831 | 6.76 |
| 69 | 0.0115 | 0.669 | 0.007694 | 6.36 |
| 70 | 0.0101 | 0.668 | 0.006747 | 6.01 |
| 71 | 0.0096 | 0.592 | 0.005683 | 5.97 |
| 72 | 0.0094 | 0.434 | 0.00408 | 5.85 |
| 73 | 0.0091 | 0.431 | 0.003922 | 5.92 |
| 74 | 0.0086 | 0.359 | 0.003087 | 5.81 |
| 75 | 0.0083 | 0.358 | 0.002971 | 5.24 |
| 76 | 0.0077 | 0.358 | 0.002757 | 5.04 |
| 77 | 0.0075 | 0.356 | 0.00267 | 4.37 |
| 78 | 0.0072 | 0.328 | 0.002362 | 3.81 |
| 79 | 0.007 | 0.279 | 0.001953 | 3.35 |
| 80 | 0.0068 | 0.263 | 0.001788 | 2.94 |

| Seri-Paralel 220V Fan | | | | |
|-----------------------|----------|--------|----------|----------|
| Time | I | V | Daya | dT Rata2 |
| (menit) | (Ampere) | (Volt) | (Watt) | (°C) |
| 1 | 0.0127 | 0.28 | 0.003556 | 0.18 |
| 2 | 0.0521 | 0.69 | 0.035949 | 0.98 |
| 3 | 0.0676 | 1.34 | 0.090584 | 4.32 |
| 4 | 0.1 | 1.8 | 0.18 | 7.48 |
| 5 | 0.126 | 2.32 | 0.29232 | 11.03 |
| 6 | 0.146 | 2.78 | 0.40588 | 13.70 |
| 7 | 0.168 | 3.19 | 0.53592 | 16.56 |
| 8 | 0.181 | 3.46 | 0.62626 | 19.20 |
| 9 | 0.21 | 3.69 | 0.7749 | 21.13 |
| 10 | 0.21 | 4.02 | 0.8442 | 22.86 |
| 11 | 0.25 | 4.39 | 1.0975 | 24.98 |
| 12 | 0.25 | 4.44 | 1.11 | 28.54 |
| 13 | 0.27 | 4.54 | 1.2258 | 30.06 |
| 14 | 0.26 | 4.67 | 1.2142 | 31.61 |
| 15 | 0.27 | 4.77 | 1.2879 | 32.25 |
| 16 | 0.28 | 4.81 | 1.3468 | 33.18 |
| 17 | 0.27 | 4.93 | 1.3311 | 33.43 |
| 18 | 0.28 | 5.03 | 1.4084 | 33.76 |
| 19 | 0.29 | 5.05 | 1.4645 | 38.03 |
| 20 | 0.27 | 5.02 | 1.3554 | 37.86 |
| 21 | 0.26 | 4.88 | 1.2688 | 38.18 |
| 22 | 0.26 | 4.9 | 1.274 | 38.61 |
| 23 | 0.28 | 4.95 | 1.386 | 38.15 |
| 24 | 0.27 | 4.79 | 1.2933 | 37.62 |
| 25 | 0.29 | 5.01 | 1.4529 | 37.05 |
| 26 | 0.26 | 5.06 | 1.3156 | 37.09 |
| 27 | 0.25 | 4.96 | 1.24 | 38.54 |
| 28 | 0.28 | 4.92 | 1.3776 | 38.17 |
| 29 | 0.27 | 5.01 | 1.3527 | 40.11 |
| 30 | 0.28 | 4.89 | 1.3692 | 42.73 |
| 31 | 0.26 | 4.92 | 1.2792 | 43.21 |
| 32 | 0.29 | 5.07 | 1.4703 | 42.14 |
| 33 | 0.29 | 5.04 | 1.4616 | 41.46 |
| 34 | 0.27 | 5.1 | 1.377 | 41.99 |
| 35 | 0.26 | 4.98 | 1.2948 | 42.50 |
| 36 | 0.28 | 4.93 | 1.3804 | 42.97 |
| 37 | 0.27 | 4.95 | 1.3365 | 43.76 |
| 38 | 0.27 | 4.91 | 1.3257 | 43.02 |
| 39 | 0.28 | 4.89 | 1.3692 | 42.34 |
| 40 | 0.28 | 4.9 | 1.372 | 41.67 |

| Seri-Paralel 220V Fan | | | | |
|-----------------------|----------|--------|---------|----------|
| Time | I | V | Daya | dT Rata2 |
| (menit) | (Ampere) | (Volt) | (Watt) | (°C) |
| 41 | 0.29 | 4.95 | 1.4355 | 41.69 |
| 42 | 0.3 | 4.502 | 1.3506 | 41.51 |
| 43 | 0.31 | 4.501 | 1.39531 | 42.43 |
| 44 | 0.29 | 4.96 | 1.4384 | 41.65 |
| 45 | 0.28 | 4.96 | 1.3888 | 40.62 |
| 46 | 0.29 | 4.97 | 1.4413 | 40.23 |
| 47 | 0.27 | 4.92 | 1.3284 | 39.20 |
| 48 | 0.28 | 4.88 | 1.3664 | 39.73 |
| 49 | 0.3 | 4.96 | 1.488 | 39.36 |
| 50 | 0.29 | 4.99 | 1.4471 | 39.51 |
| 51 | 0.32 | 5.02 | 1.6064 | 39.44 |
| 52 | 0.3 | 4.96 | 1.488 | 40.00 |
| 53 | 0.31 | 4.97 | 1.5407 | 40.59 |
| 54 | 0.29 | 5.05 | 1.4645 | 40.09 |
| 55 | 0.28 | 5.11 | 1.4308 | 39.15 |
| 56 | 0.28 | 5.03 | 1.4084 | 40.33 |
| 57 | 0.27 | 4.99 | 1.3473 | 40.57 |
| 58 | 0.29 | 4.97 | 1.4413 | 40.65 |
| 59 | 0.26 | 5.01 | 1.3026 | 40.96 |
| 60 | 0.28 | 5.01 | 1.4028 | 41.06 |
| 61 | 0.24 | 4.65 | 1.116 | 35.13 |
| 62 | 0.2 | 4.38 | 0.876 | 35.04 |
| 63 | 0.183 | 4.14 | 0.75762 | 32.28 |
| 64 | 0.168 | 3.98 | 0.66864 | 29.58 |
| 65 | 0.145 | 3.81 | 0.55245 | 27.62 |
| 66 | 0.136 | 3.44 | 0.46784 | 25.40 |
| 67 | 0.124 | 3.06 | 0.37944 | 21.51 |
| 68 | 0.112 | 2.87 | 0.32144 | 18.54 |
| 69 | 0.104 | 2.38 | 0.24752 | 15.38 |
| 70 | 0.093 | 2.11 | 0.19623 | 12.76 |
| 71 | 0.087 | 1.92 | 0.16704 | 10.67 |
| 72 | 0.077 | 1.83 | 0.14091 | 9.48 |
| 73 | 0.061 | 1.69 | 0.10309 | 8.22 |
| 74 | 0.056 | 1.31 | 0.07336 | 7.09 |
| 75 | 0.051 | 1.19 | 0.06069 | 5.61 |
| 76 | 0.047 | 1.19 | 0.05593 | 4.72 |
| 77 | 0.043 | 1.17 | 0.05031 | 4.17 |
| 78 | 0.038 | 1.15 | 0.0437 | 3.63 |
| 79 | 0.036 | 1.14 | 0.04104 | 2.62 |
| 80 | 0.033 | 1.12 | 0.03696 | 2.05 |