

## **LAMPIRAN**

Tabel lampiran 1 jadwal penelitian

| No. | Urutan penelitian                                                                             | Bulan ke- |    |     |    |   |    |
|-----|-----------------------------------------------------------------------------------------------|-----------|----|-----|----|---|----|
|     |                                                                                               | I         | II | III | IV | V | VI |
| 1.  | Studi pustaka                                                                                 |           |    |     |    |   |    |
| 2.  | Proposal                                                                                      |           |    |     |    |   |    |
| 3.  | Instalasi <i>solar cell</i> tipe <i>polycrystalline</i> dengan menggunakan 4 cermin reflektor |           |    |     |    |   |    |
| 4.  | Pengambilan data                                                                              |           |    |     |    |   |    |
| 5.  | Pengolahan data dan analisa data                                                              |           |    |     |    |   |    |
| 6.  | Seminar hasil                                                                                 |           |    |     |    |   |    |
| 7.  | Ujian tugas akhir                                                                             |           |    |     |    |   |    |

Tabel lampiran 2 rekapan hasil pengambilan data

Tegangan maksimum, Vmp (volt) dan Kuat arus maksimum, Imp (A) 225 volt

| Vmp |        |          |            | Imp |        |          |            |
|-----|--------|----------|------------|-----|--------|----------|------------|
| No. | value  | time     | date       | No. | value  | time     | date       |
| 1   | 25,100 | 19:40:10 | 07/08/2025 | 1   | 2,6489 | 19:45:20 | 07/08/2025 |
| 2   | 25,100 | 19:40:11 | 07/08/2025 | 2   | 2,6489 | 19:45:21 | 07/08/2025 |
| 3   | 25,090 | 19:40:12 | 07/08/2025 | 3   | 2,6480 | 19:45:22 | 07/08/2025 |
| 4   | 25,090 | 19:40:13 | 07/08/2025 | 4   | 2,6480 | 19:45:23 | 07/08/2025 |
| 5   | 25,090 | 19:40:14 | 07/08/2025 | 5   | 2,6480 | 19:45:24 | 07/08/2025 |
| 6   | 25,090 | 19:40:15 | 07/08/2025 | 6   | 2,6480 | 19:45:25 | 07/08/2025 |
| 7   | 25,090 | 19:40:16 | 07/08/2025 | 7   | 2,6480 | 19:45:26 | 07/08/2025 |
| 8   | 25,080 | 19:40:17 | 07/08/2025 | 8   | 2,6470 | 19:45:27 | 07/08/2025 |
| 9   | 25,080 | 19:40:18 | 07/08/2025 | 9   | 2,6470 | 19:45:28 | 07/08/2025 |
| 10  | 25,080 | 19:40:19 | 07/08/2025 | 10  | 2,6470 | 19:45:29 | 07/08/2025 |
| 11  | 25,080 | 19:40:20 | 07/08/2025 | 11  | 2,6470 | 19:45:30 | 07/08/2025 |
| 12  | 25,080 | 19:40:21 | 07/08/2025 | 12  | 2,6470 | 19:45:31 | 07/08/2025 |
| 13  | 25,080 | 19:40:22 | 07/08/2025 | 13  | 2,6470 | 19:45:32 | 07/08/2025 |
| 14  | 25,070 | 19:40:23 | 07/08/2025 | 14  | 2,6460 | 19:45:33 | 07/08/2025 |
| 15  | 25,070 | 19:40:24 | 07/08/2025 | 15  | 2,6460 | 19:45:34 | 07/08/2025 |
| 16  | 25,070 | 19:40:25 | 07/08/2025 | 16  | 2,6460 | 19:45:35 | 07/08/2025 |
| 17  | 25,070 | 19:40:26 | 07/08/2025 | 17  | 2,6460 | 19:45:36 | 07/08/2025 |
| 18  | 25,070 | 19:40:27 | 07/08/2025 | 18  | 2,6460 | 19:45:37 | 07/08/2025 |
| 19  | 25,070 | 19:40:28 | 07/08/2025 | 19  | 2,6460 | 19:45:38 | 07/08/2025 |
| 20  | 25,070 | 19:40:29 | 07/08/2025 | 20  | 2,6460 | 19:45:39 | 07/08/2025 |
| 21  | 25,060 | 19:40:30 | 07/08/2025 | 21  | 2,6450 | 19:45:40 | 07/08/2025 |
| 22  | 25,060 | 19:40:31 | 07/08/2025 | 22  | 2,6450 | 19:45:41 | 07/08/2025 |
| 23  | 25,060 | 19:40:32 | 07/08/2025 | 23  | 2,6450 | 19:45:42 | 07/08/2025 |
| 24  | 25,060 | 19:40:33 | 07/08/2025 | 24  | 2,6450 | 19:45:43 | 07/08/2025 |
| 25  | 25,060 | 19:40:34 | 07/08/2025 | 25  | 2,6450 | 19:45:44 | 07/08/2025 |
| 26  | 25,060 | 19:40:35 | 07/08/2025 | 26  | 2,6450 | 19:45:45 | 07/08/2025 |
| 27  | 25,060 | 19:40:36 | 07/08/2025 | 27  | 2,6450 | 19:45:46 | 07/08/2025 |
| 28  | 25,060 | 19:40:37 | 07/08/2025 | 28  | 2,6450 | 19:45:47 | 07/08/2025 |
| 29  | 25,050 | 19:40:38 | 07/08/2025 | 29  | 2,6441 | 19:45:48 | 07/08/2025 |
| 30  | 25,050 | 19:40:39 | 07/08/2025 | 30  | 2,6441 | 19:45:49 | 07/08/2025 |
| 31  | 25,050 | 19:40:40 | 07/08/2025 | 31  | 2,6441 | 19:45:50 | 07/08/2025 |
| 32  | 25,050 | 19:40:41 | 07/08/2025 | 32  | 2,6441 | 19:45:51 | 07/08/2025 |
| 33  | 25,050 | 19:40:42 | 07/08/2025 | 33  | 2,6441 | 19:45:52 | 07/08/2025 |
| 34  | 25,050 | 19:40:43 | 07/08/2025 | 34  | 2,6441 | 19:45:53 | 07/08/2025 |
| 35  | 25,050 | 19:40:44 | 07/08/2025 | 35  | 2,6441 | 19:45:54 | 07/08/2025 |
| 36  | 25,050 | 19:40:45 | 07/08/2025 | 36  | 2,6441 | 19:45:55 | 07/08/2025 |
| 37  | 25,040 | 19:40:46 | 07/08/2025 | 37  | 2,6431 | 19:45:56 | 07/08/2025 |
| 38  | 25,040 | 19:40:47 | 07/08/2025 | 38  | 2,6431 | 19:45:57 | 07/08/2025 |
| 39  | 25,040 | 19:40:48 | 07/08/2025 | 39  | 2,6431 | 19:45:58 | 07/08/2025 |
| 40  | 25,040 | 19:40:49 | 07/08/2025 | 40  | 2,6431 | 19:45:59 | 07/08/2025 |
| 41  | 25,040 | 19:40:50 | 07/08/2025 | 41  | 2,6431 | 19:46:00 | 07/08/2025 |
| 42  | 25,040 | 19:40:51 | 07/08/2025 | 42  | 2,6431 | 19:46:01 | 07/08/2025 |
| 43  | 25,040 | 19:40:52 | 07/08/2025 | 43  | 2,6431 | 19:46:02 | 07/08/2025 |
| 44  | 25,040 | 19:40:53 | 07/08/2025 | 44  | 2,6431 | 19:46:03 | 07/08/2025 |
| 45  | 25,040 | 19:40:54 | 07/08/2025 | 45  | 2,6431 | 19:46:04 | 07/08/2025 |
| 46  | 25,030 | 19:40:55 | 07/08/2025 | 46  | 2,6421 | 19:46:05 | 07/08/2025 |
| 47  | 25,030 | 19:40:56 | 07/08/2025 | 47  | 2,6421 | 19:46:06 | 07/08/2025 |
| 48  | 25,030 | 19:40:57 | 07/08/2025 | 48  | 2,6421 | 19:46:07 | 07/08/2025 |
| 49  | 25,030 | 19:40:58 | 07/08/2025 | 49  | 2,6421 | 19:46:08 | 07/08/2025 |
| 50  | 25,030 | 19:40:59 | 07/08/2025 | 50  | 2,6421 | 19:46:09 | 07/08/2025 |
|     | 25,060 |          |            |     | 2,645  |          |            |

Tegangan maksimum, Vmp (volt) dan Kuat arus maksimum, Imp (A) 200 volt

| Vmp |        |          |            | Imp |       |          |            |
|-----|--------|----------|------------|-----|-------|----------|------------|
| No. | value  | time     | date       | No. | value | time     | date       |
| 1   | 24,580 | 19:45:00 | 07/08/2025 | 1   | 2,611 | 19:38:00 | 07/08/2025 |
| 2   | 24,580 | 19:45:01 | 07/08/2025 | 2   | 2,611 | 19:38:01 | 07/08/2025 |
| 3   | 24,580 | 19:45:02 | 07/08/2025 | 3   | 2,611 | 19:38:02 | 07/08/2025 |
| 4   | 24,580 | 19:45:03 | 07/08/2025 | 4   | 2,611 | 19:38:03 | 07/08/2025 |
| 5   | 24,570 | 19:45:04 | 07/08/2025 | 5   | 2,610 | 19:38:04 | 07/08/2025 |
| 6   | 24,570 | 19:45:05 | 07/08/2025 | 6   | 2,610 | 19:38:05 | 07/08/2025 |
| 7   | 24,570 | 19:45:06 | 07/08/2025 | 7   | 2,610 | 19:38:06 | 07/08/2025 |
| 8   | 24,570 | 19:45:07 | 07/08/2025 | 8   | 2,610 | 19:38:07 | 07/08/2025 |
| 9   | 24,570 | 19:45:08 | 07/08/2025 | 9   | 2,610 | 19:38:08 | 07/08/2025 |
| 10  | 24,570 | 19:45:09 | 07/08/2025 | 10  | 2,610 | 19:38:09 | 07/08/2025 |
| 11  | 24,570 | 19:45:10 | 07/08/2025 | 11  | 2,610 | 19:38:10 | 07/08/2025 |
| 12  | 24,570 | 19:45:11 | 07/08/2025 | 12  | 2,610 | 19:38:11 | 07/08/2025 |
| 13  | 24,560 | 19:45:12 | 07/08/2025 | 13  | 2,609 | 19:38:12 | 07/08/2025 |
| 14  | 24,560 | 19:45:13 | 07/08/2025 | 14  | 2,609 | 19:38:13 | 07/08/2025 |
| 15  | 24,560 | 19:45:14 | 07/08/2025 | 15  | 2,609 | 19:38:14 | 07/08/2025 |
| 16  | 24,560 | 19:45:15 | 07/08/2025 | 16  | 2,609 | 19:38:15 | 07/08/2025 |
| 17  | 24,560 | 19:45:16 | 07/08/2025 | 17  | 2,609 | 19:38:16 | 07/08/2025 |
| 18  | 24,560 | 19:45:17 | 07/08/2025 | 18  | 2,609 | 19:38:17 | 07/08/2025 |
| 19  | 24,560 | 19:45:18 | 07/08/2025 | 19  | 2,609 | 19:38:18 | 07/08/2025 |
| 20  | 24,560 | 19:45:19 | 07/08/2025 | 20  | 2,609 | 19:38:19 | 07/08/2025 |
| 21  | 24,560 | 19:45:20 | 07/08/2025 | 21  | 2,609 | 19:38:20 | 07/08/2025 |
| 22  | 24,560 | 19:45:21 | 07/08/2025 | 22  | 2,609 | 19:38:21 | 07/08/2025 |
| 23  | 24,560 | 19:45:22 | 07/08/2025 | 23  | 2,609 | 19:38:22 | 07/08/2025 |
| 24  | 24,550 | 19:45:23 | 07/08/2025 | 24  | 2,608 | 19:38:23 | 07/08/2025 |
| 25  | 24,550 | 19:45:24 | 07/08/2025 | 25  | 2,608 | 19:38:24 | 07/08/2025 |
| 26  | 24,550 | 19:45:25 | 07/08/2025 | 26  | 2,608 | 19:38:25 | 07/08/2025 |
| 27  | 24,550 | 19:45:26 | 07/08/2025 | 27  | 2,608 | 19:38:26 | 07/08/2025 |
| 28  | 24,550 | 19:45:27 | 07/08/2025 | 28  | 2,608 | 19:38:27 | 07/08/2025 |
| 29  | 24,550 | 19:45:28 | 07/08/2025 | 29  | 2,608 | 19:38:28 | 07/08/2025 |
| 30  | 24,550 | 19:45:29 | 07/08/2025 | 30  | 2,608 | 19:38:29 | 07/08/2025 |
| 31  | 24,550 | 19:45:30 | 07/08/2025 | 31  | 2,608 | 19:38:30 | 07/08/2025 |
| 32  | 24,550 | 19:45:31 | 07/08/2025 | 32  | 2,608 | 19:38:31 | 07/08/2025 |
| 33  | 24,550 | 19:45:32 | 07/08/2025 | 33  | 2,608 | 19:38:32 | 07/08/2025 |
| 34  | 24,540 | 19:45:33 | 07/08/2025 | 34  | 2,607 | 19:38:33 | 07/08/2025 |
| 35  | 24,540 | 19:45:34 | 07/08/2025 | 35  | 2,607 | 19:38:34 | 07/08/2025 |
| 36  | 24,540 | 19:45:35 | 07/08/2025 | 36  | 2,607 | 19:38:35 | 07/08/2025 |
| 37  | 24,540 | 19:45:36 | 07/08/2025 | 37  | 2,607 | 19:38:36 | 07/08/2025 |
| 38  | 24,540 | 19:45:37 | 07/08/2025 | 38  | 2,607 | 19:38:37 | 07/08/2025 |
| 39  | 24,540 | 19:45:38 | 07/08/2025 | 39  | 2,607 | 19:38:38 | 07/08/2025 |
| 40  | 24,540 | 19:45:39 | 07/08/2025 | 40  | 2,607 | 19:38:39 | 07/08/2025 |
| 41  | 24,540 | 19:45:40 | 07/08/2025 | 41  | 2,607 | 19:38:40 | 07/08/2025 |
| 42  | 24,540 | 19:45:41 | 07/08/2025 | 42  | 2,607 | 19:38:41 | 07/08/2025 |
| 43  | 24,540 | 19:45:42 | 07/08/2025 | 43  | 2,607 | 19:38:42 | 07/08/2025 |
| 44  | 24,530 | 19:45:43 | 07/08/2025 | 44  | 2,606 | 19:38:43 | 07/08/2025 |
| 45  | 24,530 | 19:45:44 | 07/08/2025 | 45  | 2,606 | 19:38:44 | 07/08/2025 |
| 46  | 24,530 | 19:45:45 | 07/08/2025 | 46  | 2,606 | 19:38:45 | 07/08/2025 |
| 47  | 24,530 | 19:45:46 | 07/08/2025 | 47  | 2,606 | 19:38:46 | 07/08/2025 |
| 48  | 24,530 | 19:45:47 | 07/08/2025 | 48  | 2,606 | 19:38:47 | 07/08/2025 |
| 49  | 24,530 | 19:45:48 | 07/08/2025 | 49  | 2,606 | 19:38:48 | 07/08/2025 |
| 50  | 24,530 | 19:45:49 | 07/08/2025 | 50  | 2,606 | 19:38:49 | 07/08/2025 |
|     | 24,553 |          |            |     | 2,608 |          |            |

Tegangan maksimum, Vmp (volt) dan Kuat arus maksimum, Imp (A) 175 volt

| Vmp |        |          |            | Imp |       |          |            |
|-----|--------|----------|------------|-----|-------|----------|------------|
| No. | value  | time     | date       | No. | value | time     | date       |
| 1   | 24,010 | 19:51:03 | 07/08/2025 | 1   | 2,563 | 19:38:00 | 07/08/2025 |
| 2   | 24,010 | 19:51:04 | 07/08/2025 | 2   | 2,563 | 19:38:01 | 07/08/2025 |
| 3   | 24,010 | 19:51:05 | 07/08/2025 | 3   | 2,563 | 19:38:02 | 07/08/2025 |
| 4   | 24,010 | 19:51:06 | 07/08/2025 | 4   | 2,563 | 19:38:03 | 07/08/2025 |
| 5   | 24,010 | 19:51:07 | 07/08/2025 | 5   | 2,563 | 19:38:04 | 07/08/2025 |
| 6   | 24,010 | 19:51:08 | 07/08/2025 | 6   | 2,563 | 19:38:05 | 07/08/2025 |
| 7   | 24,010 | 19:51:09 | 07/08/2025 | 7   | 2,563 | 19:38:06 | 07/08/2025 |
| 8   | 24,010 | 19:51:10 | 07/08/2025 | 8   | 2,563 | 19:38:07 | 07/08/2025 |
| 9   | 24,000 | 19:51:11 | 07/08/2025 | 9   | 2,562 | 19:38:08 | 07/08/2025 |
| 10  | 24,000 | 19:51:12 | 07/08/2025 | 10  | 2,562 | 19:38:09 | 07/08/2025 |
| 11  | 24,000 | 19:51:13 | 07/08/2025 | 11  | 2,562 | 19:38:10 | 07/08/2025 |
| 12  | 24,000 | 19:51:14 | 07/08/2025 | 12  | 2,562 | 19:38:11 | 07/08/2025 |
| 13  | 24,000 | 19:51:15 | 07/08/2025 | 13  | 2,562 | 19:38:12 | 07/08/2025 |
| 14  | 24,000 | 19:51:16 | 07/08/2025 | 14  | 2,562 | 19:38:13 | 07/08/2025 |
| 15  | 24,000 | 19:51:17 | 07/08/2025 | 15  | 2,562 | 19:38:14 | 07/08/2025 |
| 16  | 24,000 | 19:51:18 | 07/08/2025 | 16  | 2,562 | 19:38:15 | 07/08/2025 |
| 17  | 24,000 | 19:51:19 | 07/08/2025 | 17  | 2,562 | 19:38:16 | 07/08/2025 |
| 18  | 24,000 | 19:51:20 | 07/08/2025 | 18  | 2,562 | 19:38:17 | 07/08/2025 |
| 19  | 24,000 | 19:51:21 | 07/08/2025 | 19  | 2,562 | 19:38:18 | 07/08/2025 |
| 20  | 24,000 | 19:51:22 | 07/08/2025 | 20  | 2,562 | 19:38:19 | 07/08/2025 |
| 21  | 24,000 | 19:51:23 | 07/08/2025 | 21  | 2,562 | 19:38:20 | 07/08/2025 |
| 22  | 24,000 | 19:51:24 | 07/08/2025 | 22  | 2,562 | 19:38:21 | 07/08/2025 |
| 23  | 23,990 | 19:51:25 | 07/08/2025 | 23  | 2,561 | 19:38:22 | 07/08/2025 |
| 24  | 23,990 | 19:51:26 | 07/08/2025 | 24  | 2,561 | 19:38:23 | 07/08/2025 |
| 25  | 23,990 | 19:51:27 | 07/08/2025 | 25  | 2,561 | 19:38:24 | 07/08/2025 |
| 26  | 23,990 | 19:51:28 | 07/08/2025 | 26  | 2,561 | 19:38:25 | 07/08/2025 |
| 27  | 23,990 | 19:51:29 | 07/08/2025 | 27  | 2,561 | 19:38:26 | 07/08/2025 |
| 28  | 23,990 | 19:51:30 | 07/08/2025 | 28  | 2,561 | 19:38:27 | 07/08/2025 |
| 29  | 23,620 | 19:51:31 | 07/08/2025 | 29  | 2,525 | 19:38:28 | 07/08/2025 |
| 30  | 23,980 | 19:51:32 | 07/08/2025 | 30  | 2,560 | 19:38:29 | 07/08/2025 |
| 31  | 23,980 | 19:51:33 | 07/08/2025 | 31  | 2,560 | 19:38:30 | 07/08/2025 |
| 32  | 23,980 | 19:51:34 | 07/08/2025 | 32  | 2,560 | 19:38:31 | 07/08/2025 |
| 33  | 23,980 | 19:51:35 | 07/08/2025 | 33  | 2,560 | 19:38:32 | 07/08/2025 |
| 34  | 23,980 | 19:51:36 | 07/08/2025 | 34  | 2,560 | 19:38:33 | 07/08/2025 |
| 35  | 23,980 | 19:51:37 | 07/08/2025 | 35  | 2,560 | 19:38:34 | 07/08/2025 |
| 36  | 23,980 | 19:51:38 | 07/08/2025 | 36  | 2,560 | 19:38:35 | 07/08/2025 |
| 37  | 23,980 | 19:51:39 | 07/08/2025 | 37  | 2,560 | 19:38:36 | 07/08/2025 |
| 38  | 23,980 | 19:51:40 | 07/08/2025 | 38  | 2,560 | 19:38:37 | 07/08/2025 |
| 39  | 23,980 | 19:51:41 | 07/08/2025 | 39  | 2,560 | 19:38:38 | 07/08/2025 |
| 40  | 23,980 | 19:51:42 | 07/08/2025 | 40  | 2,560 | 19:38:39 | 07/08/2025 |
| 41  | 23,980 | 19:51:43 | 07/08/2025 | 41  | 2,560 | 19:38:40 | 07/08/2025 |
| 42  | 23,980 | 19:51:44 | 07/08/2025 | 42  | 2,560 | 19:38:41 | 07/08/2025 |
| 43  | 23,980 | 19:51:45 | 07/08/2025 | 43  | 2,560 | 19:38:42 | 07/08/2025 |
| 44  | 23,980 | 19:51:46 | 07/08/2025 | 44  | 2,560 | 19:38:43 | 07/08/2025 |
| 45  | 23,980 | 19:51:47 | 07/08/2025 | 45  | 2,560 | 19:38:44 | 07/08/2025 |
| 46  | 23,970 | 19:51:48 | 07/08/2025 | 46  | 2,559 | 19:38:45 | 07/08/2025 |
| 47  | 23,970 | 19:51:49 | 07/08/2025 | 47  | 2,559 | 19:38:46 | 07/08/2025 |
| 48  | 23,970 | 19:51:50 | 07/08/2025 | 48  | 2,559 | 19:38:47 | 07/08/2025 |
| 49  | 23,970 | 19:51:51 | 07/08/2025 | 49  | 2,559 | 19:38:48 | 07/08/2025 |

|    |        |          |            |    |       |          |            |
|----|--------|----------|------------|----|-------|----------|------------|
| 50 | 23,970 | 19:51:52 | 07/08/2025 | 50 | 2,559 | 19:38:49 | 07/08/2025 |
|    | 23,983 |          |            |    | 2,560 |          |            |

Tegangan maksimum, Vmp (volt) dan Kuat arus maksimum, Imp (A) 150 volt

| Vmp |        |          |            | Imp |       |          |            |
|-----|--------|----------|------------|-----|-------|----------|------------|
| No. | value  | time     | date       | No. | value | time     | date       |
| 1   | 23,200 | 19:56:10 | 07/08/2025 | 1   | 2,491 | 19:38:00 | 07/08/2025 |
| 2   | 23,200 | 19:56:11 | 07/08/2025 | 2   | 2,491 | 19:38:01 | 07/08/2025 |
| 3   | 23,200 | 19:56:12 | 07/08/2025 | 3   | 2,491 | 19:38:02 | 07/08/2025 |
| 4   | 23,200 | 19:56:13 | 07/08/2025 | 4   | 2,491 | 19:38:03 | 07/08/2025 |
| 5   | 23,200 | 19:56:14 | 07/08/2025 | 5   | 2,491 | 19:38:04 | 07/08/2025 |
| 6   | 23,200 | 19:56:15 | 07/08/2025 | 6   | 2,491 | 19:38:05 | 07/08/2025 |
| 7   | 23,200 | 19:56:16 | 07/08/2025 | 7   | 2,491 | 19:38:06 | 07/08/2025 |
| 8   | 23,200 | 19:56:17 | 07/08/2025 | 8   | 2,491 | 19:38:07 | 07/08/2025 |
| 9   | 23,200 | 19:56:18 | 07/08/2025 | 9   | 2,491 | 19:38:08 | 07/08/2025 |
| 10  | 23,200 | 19:56:19 | 07/08/2025 | 10  | 2,491 | 19:38:09 | 07/08/2025 |
| 11  | 23,200 | 19:56:20 | 07/08/2025 | 11  | 2,491 | 19:38:10 | 07/08/2025 |
| 12  | 23,200 | 19:56:21 | 07/08/2025 | 12  | 2,491 | 19:38:11 | 07/08/2025 |
| 13  | 23,200 | 19:56:22 | 07/08/2025 | 13  | 2,491 | 19:38:12 | 07/08/2025 |
| 14  | 23,200 | 19:56:23 | 07/08/2025 | 14  | 2,491 | 19:38:13 | 07/08/2025 |
| 15  | 23,200 | 19:56:24 | 07/08/2025 | 15  | 2,491 | 19:38:14 | 07/08/2025 |
| 16  | 23,200 | 19:56:25 | 07/08/2025 | 16  | 2,491 | 19:38:15 | 07/08/2025 |
| 17  | 23,200 | 19:56:26 | 07/08/2025 | 17  | 2,491 | 19:38:16 | 07/08/2025 |
| 18  | 23,200 | 19:56:27 | 07/08/2025 | 18  | 2,491 | 19:38:17 | 07/08/2025 |
| 19  | 23,200 | 19:56:28 | 07/08/2025 | 19  | 2,491 | 19:38:18 | 07/08/2025 |
| 20  | 23,200 | 19:56:29 | 07/08/2025 | 20  | 2,491 | 19:38:19 | 07/08/2025 |
| 21  | 23,200 | 19:56:30 | 07/08/2025 | 21  | 2,491 | 19:38:20 | 07/08/2025 |
| 22  | 23,200 | 19:56:31 | 07/08/2025 | 22  | 2,491 | 19:38:21 | 07/08/2025 |
| 23  | 23,200 | 19:56:32 | 07/08/2025 | 23  | 2,491 | 19:38:22 | 07/08/2025 |
| 24  | 23,200 | 19:56:33 | 07/08/2025 | 24  | 2,491 | 19:38:23 | 07/08/2025 |
| 25  | 23,190 | 19:56:34 | 07/08/2025 | 25  | 2,490 | 19:38:24 | 07/08/2025 |
| 26  | 23,190 | 19:56:35 | 07/08/2025 | 26  | 2,490 | 19:38:25 | 07/08/2025 |
| 27  | 23,190 | 19:56:36 | 07/08/2025 | 27  | 2,490 | 19:38:26 | 07/08/2025 |
| 28  | 23,190 | 19:56:37 | 07/08/2025 | 28  | 2,490 | 19:38:27 | 07/08/2025 |
| 29  | 23,190 | 19:56:38 | 07/08/2025 | 29  | 2,490 | 19:38:28 | 07/08/2025 |
| 30  | 23,190 | 19:56:39 | 07/08/2025 | 30  | 2,490 | 19:38:29 | 07/08/2025 |
| 31  | 23,190 | 19:56:40 | 07/08/2025 | 31  | 2,490 | 19:38:30 | 07/08/2025 |
| 32  | 23,190 | 19:56:41 | 07/08/2025 | 32  | 2,490 | 19:38:31 | 07/08/2025 |
| 33  | 23,190 | 19:56:42 | 07/08/2025 | 33  | 2,490 | 19:38:32 | 07/08/2025 |
| 34  | 23,190 | 19:56:43 | 07/08/2025 | 34  | 2,490 | 19:38:33 | 07/08/2025 |
| 35  | 23,190 | 19:56:44 | 07/08/2025 | 35  | 2,490 | 19:38:34 | 07/08/2025 |
| 36  | 23,190 | 19:56:45 | 07/08/2025 | 36  | 2,490 | 19:38:35 | 07/08/2025 |
| 37  | 23,190 | 19:56:46 | 07/08/2025 | 37  | 2,490 | 19:38:36 | 07/08/2025 |
| 38  | 23,190 | 19:56:47 | 07/08/2025 | 38  | 2,490 | 19:38:37 | 07/08/2025 |
| 39  | 23,190 | 19:56:48 | 07/08/2025 | 39  | 2,490 | 19:38:38 | 07/08/2025 |
| 40  | 23,190 | 19:56:49 | 07/08/2025 | 40  | 2,490 | 19:38:39 | 07/08/2025 |
| 41  | 23,190 | 19:56:50 | 07/08/2025 | 41  | 2,490 | 19:38:40 | 07/08/2025 |
| 42  | 23,190 | 19:56:51 | 07/08/2025 | 42  | 2,490 | 19:38:41 | 07/08/2025 |
| 43  | 23,190 | 19:56:52 | 07/08/2025 | 43  | 2,490 | 19:38:42 | 07/08/2025 |
| 44  | 23,190 | 19:56:53 | 07/08/2025 | 44  | 2,490 | 19:38:43 | 07/08/2025 |
| 45  | 23,190 | 19:56:54 | 07/08/2025 | 45  | 2,490 | 19:38:44 | 07/08/2025 |
| 46  | 23,180 | 19:56:55 | 07/08/2025 | 46  | 2,489 | 19:38:45 | 07/08/2025 |
| 47  | 23,180 | 19:56:56 | 07/08/2025 | 47  | 2,489 | 19:38:46 | 07/08/2025 |

|    |        |          |            |    |       |          |            |
|----|--------|----------|------------|----|-------|----------|------------|
| 48 | 23,180 | 19:56:57 | 07/08/2025 | 48 | 2,489 | 19:38:47 | 07/08/2025 |
| 49 | 23,180 | 19:56:58 | 07/08/2025 | 49 | 2,489 | 19:38:48 | 07/08/2025 |
| 50 | 23,180 | 19:56:59 | 07/08/2025 | 50 | 2,489 | 19:38:49 | 07/08/2025 |
|    | 23,194 |          |            |    | 2,490 |          |            |

Tegangan maksimum, Vmp (volt) dan Kuat arus maksimum, Imp (A) 125 volt

| Vmp |        |          |            | Imp |       |          |            |
|-----|--------|----------|------------|-----|-------|----------|------------|
| No. | value  | time     | date       | No. | value | time     | date       |
| 1   | 22,040 | 20:00:07 | 07/08/2025 | 1   | 2,388 | 19:38:00 | 07/08/2025 |
| 2   | 22,040 | 20:00:08 | 07/08/2025 | 2   | 2,388 | 19:38:01 | 07/08/2025 |
| 3   | 22,040 | 20:00:09 | 07/08/2025 | 3   | 2,388 | 19:38:02 | 07/08/2025 |
| 4   | 22,040 | 20:00:10 | 07/08/2025 | 4   | 2,388 | 19:38:03 | 07/08/2025 |
| 5   | 22,040 | 20:00:11 | 07/08/2025 | 5   | 2,388 | 19:38:04 | 07/08/2025 |
| 6   | 22,040 | 20:00:12 | 07/08/2025 | 6   | 2,388 | 19:38:05 | 07/08/2025 |
| 7   | 22,040 | 20:00:13 | 07/08/2025 | 7   | 2,388 | 19:38:06 | 07/08/2025 |
| 8   | 22,030 | 20:00:14 | 07/08/2025 | 8   | 2,387 | 19:38:07 | 07/08/2025 |
| 9   | 22,030 | 20:00:15 | 07/08/2025 | 9   | 2,387 | 19:38:08 | 07/08/2025 |
| 10  | 22,030 | 20:00:16 | 07/08/2025 | 10  | 2,387 | 19:38:09 | 07/08/2025 |
| 11  | 22,030 | 20:00:17 | 07/08/2025 | 11  | 2,387 | 19:38:10 | 07/08/2025 |
| 12  | 22,030 | 20:00:18 | 07/08/2025 | 12  | 2,387 | 19:38:11 | 07/08/2025 |
| 13  | 22,030 | 20:00:19 | 07/08/2025 | 13  | 2,387 | 19:38:12 | 07/08/2025 |
| 14  | 22,030 | 20:00:20 | 07/08/2025 | 14  | 2,387 | 19:38:13 | 07/08/2025 |
| 15  | 22,030 | 20:00:21 | 07/08/2025 | 15  | 2,387 | 19:38:14 | 07/08/2025 |
| 16  | 22,030 | 20:00:22 | 07/08/2025 | 16  | 2,387 | 19:38:15 | 07/08/2025 |
| 17  | 22,030 | 20:00:23 | 07/08/2025 | 17  | 2,387 | 19:38:16 | 07/08/2025 |
| 18  | 22,030 | 20:00:24 | 07/08/2025 | 18  | 2,387 | 19:38:17 | 07/08/2025 |
| 19  | 22,030 | 20:00:25 | 07/08/2025 | 19  | 2,387 | 19:38:18 | 07/08/2025 |
| 20  | 22,030 | 20:00:26 | 07/08/2025 | 20  | 2,387 | 19:38:19 | 07/08/2025 |
| 21  | 22,030 | 20:00:27 | 07/08/2025 | 21  | 2,387 | 19:38:20 | 07/08/2025 |
| 22  | 22,030 | 20:00:28 | 07/08/2025 | 22  | 2,387 | 19:38:21 | 07/08/2025 |
| 23  | 22,030 | 20:00:29 | 07/08/2025 | 23  | 2,387 | 19:38:22 | 07/08/2025 |
| 24  | 22,030 | 20:00:30 | 07/08/2025 | 24  | 2,387 | 19:38:23 | 07/08/2025 |
| 25  | 22,030 | 20:00:31 | 07/08/2025 | 25  | 2,387 | 19:38:24 | 07/08/2025 |
| 26  | 22,030 | 20:00:32 | 07/08/2025 | 26  | 2,387 | 19:38:25 | 07/08/2025 |
| 27  | 22,030 | 20:00:33 | 07/08/2025 | 27  | 2,387 | 19:38:26 | 07/08/2025 |
| 28  | 22,030 | 20:00:34 | 07/08/2025 | 28  | 2,387 | 19:38:27 | 07/08/2025 |
| 29  | 22,030 | 20:00:35 | 07/08/2025 | 29  | 2,387 | 19:38:28 | 07/08/2025 |
| 30  | 22,030 | 20:00:36 | 07/08/2025 | 30  | 2,387 | 19:38:29 | 07/08/2025 |
| 31  | 22,030 | 20:00:37 | 07/08/2025 | 31  | 2,387 | 19:38:30 | 07/08/2025 |
| 32  | 22,030 | 20:00:38 | 07/08/2025 | 32  | 2,387 | 19:38:31 | 07/08/2025 |
| 33  | 22,030 | 20:00:39 | 07/08/2025 | 33  | 2,387 | 19:38:32 | 07/08/2025 |
| 34  | 22,030 | 20:00:40 | 07/08/2025 | 34  | 2,387 | 19:38:33 | 07/08/2025 |
| 35  | 22,030 | 20:00:41 | 07/08/2025 | 35  | 2,387 | 19:38:34 | 07/08/2025 |
| 36  | 22,030 | 20:00:42 | 07/08/2025 | 36  | 2,387 | 19:38:35 | 07/08/2025 |
| 37  | 22,030 | 20:00:43 | 07/08/2025 | 37  | 2,387 | 19:38:36 | 07/08/2025 |
| 38  | 22,030 | 20:00:44 | 07/08/2025 | 38  | 2,387 | 19:38:37 | 07/08/2025 |
| 39  | 22,030 | 20:00:45 | 07/08/2025 | 39  | 2,387 | 19:38:38 | 07/08/2025 |
| 40  | 22,030 | 20:00:46 | 07/08/2025 | 40  | 2,387 | 19:38:39 | 07/08/2025 |
| 41  | 22,030 | 20:00:47 | 07/08/2025 | 41  | 2,387 | 19:38:40 | 07/08/2025 |
| 42  | 22,030 | 20:00:48 | 07/08/2025 | 42  | 2,387 | 19:38:41 | 07/08/2025 |
| 43  | 22,030 | 20:00:49 | 07/08/2025 | 43  | 2,387 | 19:38:42 | 07/08/2025 |
| 44  | 22,030 | 20:00:50 | 07/08/2025 | 44  | 2,387 | 19:38:43 | 07/08/2025 |

|    |        |          |            |    |       |          |            |
|----|--------|----------|------------|----|-------|----------|------------|
| 45 | 22,030 | 20:00:51 | 07/08/2025 | 45 | 2,387 | 19:38:44 | 07/08/2025 |
| 46 | 22,030 | 20:00:52 | 07/08/2025 | 46 | 2,387 | 19:38:45 | 07/08/2025 |
| 47 | 22,030 | 20:00:53 | 07/08/2025 | 47 | 2,387 | 19:38:46 | 07/08/2025 |
| 48 | 22,030 | 20:00:54 | 07/08/2025 | 48 | 2,387 | 19:38:47 | 07/08/2025 |
| 49 | 22,030 | 20:00:55 | 07/08/2025 | 49 | 2,387 | 19:38:48 | 07/08/2025 |
| 50 | 22,030 | 20:00:56 | 07/08/2025 | 50 | 2,387 | 19:38:49 | 07/08/2025 |
|    | 22,031 |          |            |    | 2,387 |          |            |

Tegangan maksimum, Vmp (volt) dan Kuat arus maksimum, Imp (A) 100 volt

| Vmp |        |          |            | Imp |       |          |            |
|-----|--------|----------|------------|-----|-------|----------|------------|
| No. | value  | time     | date       | No. | value | time     | date       |
| 1   | 19,840 | 20:05:12 | 07/08/2025 | 1   | 2,177 | 19:38:00 | 07/08/2025 |
| 2   | 19,840 | 20:05:13 | 07/08/2025 | 2   | 2,177 | 19:38:01 | 07/08/2025 |
| 3   | 19,840 | 20:05:14 | 07/08/2025 | 3   | 2,177 | 19:38:02 | 07/08/2025 |
| 4   | 19,840 | 20:05:15 | 07/08/2025 | 4   | 2,177 | 19:38:03 | 07/08/2025 |
| 5   | 19,850 | 20:05:16 | 07/08/2025 | 5   | 2,178 | 19:38:04 | 07/08/2025 |
| 6   | 19,840 | 20:05:17 | 07/08/2025 | 6   | 2,177 | 19:38:05 | 07/08/2025 |
| 7   | 19,840 | 20:05:18 | 07/08/2025 | 7   | 2,177 | 19:38:06 | 07/08/2025 |
| 8   | 19,840 | 20:05:19 | 07/08/2025 | 8   | 2,177 | 19:38:07 | 07/08/2025 |
| 9   | 19,830 | 20:05:20 | 07/08/2025 | 9   | 2,176 | 19:38:08 | 07/08/2025 |
| 10  | 19,840 | 20:05:21 | 07/08/2025 | 10  | 2,177 | 19:38:09 | 07/08/2025 |
| 11  | 19,840 | 20:05:22 | 07/08/2025 | 11  | 2,177 | 19:38:10 | 07/08/2025 |
| 12  | 19,830 | 20:05:23 | 07/08/2025 | 12  | 2,176 | 19:38:11 | 07/08/2025 |
| 13  | 19,830 | 20:05:24 | 07/08/2025 | 13  | 2,176 | 19:38:12 | 07/08/2025 |
| 14  | 19,830 | 20:05:25 | 07/08/2025 | 14  | 2,176 | 19:38:13 | 07/08/2025 |
| 15  | 19,830 | 20:05:26 | 07/08/2025 | 15  | 2,176 | 19:38:14 | 07/08/2025 |
| 16  | 19,830 | 20:05:27 | 07/08/2025 | 16  | 2,176 | 19:38:15 | 07/08/2025 |
| 17  | 19,830 | 20:05:28 | 07/08/2025 | 17  | 2,176 | 19:38:16 | 07/08/2025 |
| 18  | 19,820 | 20:05:29 | 07/08/2025 | 18  | 2,175 | 19:38:17 | 07/08/2025 |
| 19  | 19,820 | 20:05:30 | 07/08/2025 | 19  | 2,175 | 19:38:18 | 07/08/2025 |
| 20  | 19,820 | 20:05:31 | 07/08/2025 | 20  | 2,175 | 19:38:19 | 07/08/2025 |
| 21  | 19,830 | 20:05:32 | 07/08/2025 | 21  | 2,176 | 19:38:20 | 07/08/2025 |
| 22  | 19,830 | 20:05:33 | 07/08/2025 | 22  | 2,176 | 19:38:21 | 07/08/2025 |
| 23  | 19,830 | 20:05:34 | 07/08/2025 | 23  | 2,176 | 19:38:22 | 07/08/2025 |
| 24  | 19,830 | 20:05:35 | 07/08/2025 | 24  | 2,176 | 19:38:23 | 07/08/2025 |
| 25  | 19,830 | 20:05:36 | 07/08/2025 | 25  | 2,176 | 19:38:24 | 07/08/2025 |
| 26  | 19,830 | 20:05:37 | 07/08/2025 | 26  | 2,176 | 19:38:25 | 07/08/2025 |
| 27  | 19,830 | 20:05:38 | 07/08/2025 | 27  | 2,176 | 19:38:26 | 07/08/2025 |
| 28  | 19,830 | 20:05:39 | 07/08/2025 | 28  | 2,176 | 19:38:27 | 07/08/2025 |
| 29  | 19,830 | 20:05:40 | 07/08/2025 | 29  | 2,176 | 19:38:28 | 07/08/2025 |
| 30  | 19,830 | 20:05:41 | 07/08/2025 | 30  | 2,176 | 19:38:29 | 07/08/2025 |
| 31  | 19,830 | 20:05:42 | 07/08/2025 | 31  | 2,176 | 19:38:30 | 07/08/2025 |
| 32  | 19,830 | 20:05:43 | 07/08/2025 | 32  | 2,176 | 19:38:31 | 07/08/2025 |
| 33  | 19,830 | 20:05:44 | 07/08/2025 | 33  | 2,176 | 19:38:32 | 07/08/2025 |
| 34  | 19,830 | 20:05:45 | 07/08/2025 | 34  | 2,176 | 19:38:33 | 07/08/2025 |
| 35  | 19,830 | 20:05:46 | 07/08/2025 | 35  | 2,176 | 19:38:34 | 07/08/2025 |
| 36  | 19,830 | 20:05:47 | 07/08/2025 | 36  | 2,176 | 19:38:35 | 07/08/2025 |
| 37  | 19,830 | 20:05:48 | 07/08/2025 | 37  | 2,176 | 19:38:36 | 07/08/2025 |
| 38  | 19,840 | 20:05:49 | 07/08/2025 | 38  | 2,177 | 19:38:37 | 07/08/2025 |
| 39  | 19,840 | 20:05:50 | 07/08/2025 | 39  | 2,177 | 19:38:38 | 07/08/2025 |
| 40  | 19,840 | 20:05:51 | 07/08/2025 | 40  | 2,177 | 19:38:39 | 07/08/2025 |
| 41  | 19,840 | 20:05:52 | 07/08/2025 | 41  | 2,177 | 19:38:40 | 07/08/2025 |



|    |        |          |            |    |       |          |            |
|----|--------|----------|------------|----|-------|----------|------------|
| 42 | 19,840 | 20:05:53 | 07/08/2025 | 42 | 2,177 | 19:38:41 | 07/08/2025 |
| 43 | 19,840 | 20:05:54 | 07/08/2025 | 43 | 2,177 | 19:38:42 | 07/08/2025 |
| 44 | 19,840 | 20:05:55 | 07/08/2025 | 44 | 2,177 | 19:38:43 | 07/08/2025 |
| 45 | 19,840 | 20:05:56 | 07/08/2025 | 45 | 2,177 | 19:38:44 | 07/08/2025 |
| 46 | 19,840 | 20:05:57 | 07/08/2025 | 46 | 2,177 | 19:38:45 | 07/08/2025 |
| 47 | 19,840 | 20:05:58 | 07/08/2025 | 47 | 2,177 | 19:38:46 | 07/08/2025 |
| 48 | 19,840 | 20:05:59 | 07/08/2025 | 48 | 2,177 | 19:38:47 | 07/08/2025 |
| 49 | 19,840 | 20:06:00 | 07/08/2025 | 49 | 2,177 | 19:38:48 | 07/08/2025 |
| 50 | 19,840 | 20:06:01 | 07/08/2025 | 50 | 2,177 | 19:38:49 | 07/08/2025 |
|    | 19,834 |          |            |    | 2,176 |          |            |

Tegangan maksimum, Vmp (volt) dan Kuat arus maksimum, Imp (A) 75 volt

| Vmp |        |          |            | Imp |       |          |            |
|-----|--------|----------|------------|-----|-------|----------|------------|
| No. | value  | time     | date       | No. | value | time     | date       |
| 1   | 15,720 | 20:10:05 | 07/08/2025 | 1   | 1,772 | 19:38:00 | 07/08/2025 |
| 2   | 15,730 | 20:10:06 | 07/08/2025 | 2   | 1,773 | 19:38:01 | 07/08/2025 |
| 3   | 15,810 | 20:10:07 | 07/08/2025 | 3   | 1,781 | 19:38:02 | 07/08/2025 |
| 4   | 15,940 | 20:10:08 | 07/08/2025 | 4   | 1,794 | 19:38:03 | 07/08/2025 |
| 5   | 15,950 | 20:10:09 | 07/08/2025 | 5   | 1,795 | 19:38:04 | 07/08/2025 |
| 6   | 15,970 | 20:10:10 | 07/08/2025 | 6   | 1,797 | 19:38:05 | 07/08/2025 |
| 7   | 15,980 | 20:10:11 | 07/08/2025 | 7   | 1,798 | 19:38:06 | 07/08/2025 |
| 8   | 16,000 | 20:10:12 | 07/08/2025 | 8   | 1,800 | 19:38:07 | 07/08/2025 |
| 9   | 16,000 | 20:10:13 | 07/08/2025 | 9   | 1,800 | 19:38:08 | 07/08/2025 |
| 10  | 16,000 | 20:10:14 | 07/08/2025 | 10  | 1,800 | 19:38:09 | 07/08/2025 |
| 11  | 16,000 | 20:10:15 | 07/08/2025 | 11  | 1,800 | 19:38:10 | 07/08/2025 |
| 12  | 16,000 | 20:10:16 | 07/08/2025 | 12  | 1,800 | 19:38:11 | 07/08/2025 |
| 13  | 16,000 | 20:10:17 | 07/08/2025 | 13  | 1,800 | 19:38:12 | 07/08/2025 |
| 14  | 16,000 | 20:10:18 | 07/08/2025 | 14  | 1,800 | 19:38:13 | 07/08/2025 |
| 15  | 16,000 | 20:10:19 | 07/08/2025 | 15  | 1,800 | 19:38:14 | 07/08/2025 |
| 16  | 16,000 | 20:10:20 | 07/08/2025 | 16  | 1,800 | 19:38:15 | 07/08/2025 |
| 17  | 16,000 | 20:10:21 | 07/08/2025 | 17  | 1,800 | 19:38:16 | 07/08/2025 |
| 18  | 16,000 | 20:10:22 | 07/08/2025 | 18  | 1,800 | 19:38:17 | 07/08/2025 |
| 19  | 16,000 | 20:10:23 | 07/08/2025 | 19  | 1,800 | 19:38:18 | 07/08/2025 |
| 20  | 16,000 | 20:10:24 | 07/08/2025 | 20  | 1,800 | 19:38:19 | 07/08/2025 |
| 21  | 16,000 | 20:10:25 | 07/08/2025 | 21  | 1,800 | 19:38:20 | 07/08/2025 |
| 22  | 16,000 | 20:10:26 | 07/08/2025 | 22  | 1,800 | 19:38:21 | 07/08/2025 |
| 23  | 16,000 | 20:10:27 | 07/08/2025 | 23  | 1,800 | 19:38:22 | 07/08/2025 |
| 24  | 16,000 | 20:10:28 | 07/08/2025 | 24  | 1,800 | 19:38:23 | 07/08/2025 |
| 25  | 16,000 | 20:10:29 | 07/08/2025 | 25  | 1,800 | 19:38:24 | 07/08/2025 |
| 26  | 16,000 | 20:10:30 | 07/08/2025 | 26  | 1,800 | 19:38:25 | 07/08/2025 |
| 27  | 16,000 | 20:10:31 | 07/08/2025 | 27  | 1,800 | 19:38:26 | 07/08/2025 |
| 28  | 16,000 | 20:10:32 | 07/08/2025 | 28  | 1,800 | 19:38:27 | 07/08/2025 |
| 29  | 16,000 | 20:10:33 | 07/08/2025 | 29  | 1,800 | 19:38:28 | 07/08/2025 |
| 30  | 16,000 | 20:10:34 | 07/08/2025 | 30  | 1,800 | 19:38:29 | 07/08/2025 |
| 31  | 16,000 | 20:10:35 | 07/08/2025 | 31  | 1,800 | 19:38:30 | 07/08/2025 |
| 32  | 15,990 | 20:10:36 | 07/08/2025 | 32  | 1,799 | 19:38:31 | 07/08/2025 |
| 33  | 15,980 | 20:10:37 | 07/08/2025 | 33  | 1,798 | 19:38:32 | 07/08/2025 |
| 34  | 15,980 | 20:10:38 | 07/08/2025 | 34  | 1,798 | 19:38:33 | 07/08/2025 |
| 35  | 15,980 | 20:10:39 | 07/08/2025 | 35  | 1,798 | 19:38:34 | 07/08/2025 |
| 36  | 15,990 | 20:10:40 | 07/08/2025 | 36  | 1,799 | 19:38:35 | 07/08/2025 |
| 37  | 16,000 | 20:10:41 | 07/08/2025 | 37  | 1,800 | 19:38:36 | 07/08/2025 |
| 38  | 16,000 | 20:10:42 | 07/08/2025 | 38  | 1,800 | 19:38:37 | 07/08/2025 |

|    |        |          |            |    |       |          |            |
|----|--------|----------|------------|----|-------|----------|------------|
| 39 | 16,000 | 20:10:43 | 07/08/2025 | 39 | 1,800 | 19:38:38 | 07/08/2025 |
| 40 | 16,000 | 20:10:44 | 07/08/2025 | 40 | 1,800 | 19:38:39 | 07/08/2025 |
| 41 | 16,000 | 20:10:45 | 07/08/2025 | 41 | 1,800 | 19:38:40 | 07/08/2025 |
| 42 | 16,000 | 20:10:46 | 07/08/2025 | 42 | 1,800 | 19:38:41 | 07/08/2025 |
| 43 | 16,000 | 20:10:47 | 07/08/2025 | 43 | 1,800 | 19:38:42 | 07/08/2025 |
| 44 | 16,000 | 20:10:48 | 07/08/2025 | 44 | 1,800 | 19:38:43 | 07/08/2025 |
| 45 | 15,990 | 20:10:49 | 07/08/2025 | 45 | 1,799 | 19:38:44 | 07/08/2025 |
| 46 | 15,980 | 20:10:50 | 07/08/2025 | 46 | 1,798 | 19:38:45 | 07/08/2025 |
| 47 | 15,970 | 20:10:51 | 07/08/2025 | 47 | 1,797 | 19:38:46 | 07/08/2025 |
| 48 | 15,980 | 20:10:52 | 07/08/2025 | 48 | 1,798 | 19:38:47 | 07/08/2025 |
| 49 | 15,980 | 20:10:53 | 07/08/2025 | 49 | 1,798 | 19:38:48 | 07/08/2025 |
| 50 | 15,980 | 20:10:54 | 07/08/2025 | 50 | 1,798 | 19:38:49 | 07/08/2025 |
|    | 15,978 |          |            |    | 1,798 |          |            |

Tabel lampiran 3 tegangan maksimum Voc (volt) 225 volt

| Voc |       |          |            |
|-----|-------|----------|------------|
| No. | value | time     | date       |
| 1   | 24,40 | 19:42:11 | 07/08/2025 |
| 2   | 24,40 | 19:42:12 | 07/08/2025 |
| 3   | 24,40 | 19:42:13 | 07/08/2025 |
| 4   | 24,40 | 19:42:14 | 07/08/2025 |
| 5   | 24,40 | 19:42:15 | 07/08/2025 |
| 6   | 24,39 | 19:42:16 | 07/08/2025 |
| 7   | 24,39 | 19:42:17 | 07/08/2025 |
| 8   | 24,39 | 19:42:18 | 07/08/2025 |
| 9   | 24,39 | 19:42:19 | 07/08/2025 |
| 10  | 24,39 | 19:42:20 | 07/08/2025 |
| 11  | 24,39 | 19:42:21 | 07/08/2025 |
| 12  | 24,39 | 19:42:22 | 07/08/2025 |
| 13  | 24,39 | 19:42:23 | 07/08/2025 |
| 14  | 24,39 | 19:42:24 | 07/08/2025 |
| 15  | 24,39 | 19:42:25 | 07/08/2025 |
| 16  | 24,39 | 19:42:26 | 07/08/2025 |
| 17  | 24,38 | 19:42:27 | 07/08/2025 |
| 18  | 24,38 | 19:42:28 | 07/08/2025 |
| 19  | 24,38 | 19:42:29 | 07/08/2025 |
| 20  | 24,38 | 19:42:30 | 07/08/2025 |
| 21  | 24,38 | 19:42:31 | 07/08/2025 |
| 22  | 24,38 | 19:42:32 | 07/08/2025 |
| 23  | 24,38 | 19:42:33 | 07/08/2025 |
| 24  | 24,38 | 19:42:34 | 07/08/2025 |
| 25  | 24,38 | 19:42:35 | 07/08/2025 |
| 26  | 24,38 | 19:42:36 | 07/08/2025 |
| 27  | 24,38 | 19:42:37 | 07/08/2025 |
| 28  | 24,38 | 19:42:38 | 07/08/2025 |
| 29  | 24,38 | 19:42:39 | 07/08/2025 |
| 30  | 24,38 | 19:42:40 | 07/08/2025 |
| 31  | 24,37 | 19:42:41 | 07/08/2025 |
| 32  | 24,37 | 19:42:42 | 07/08/2025 |
| 33  | 24,37 | 19:42:43 | 07/08/2025 |
| 34  | 24,37 | 19:42:44 | 07/08/2025 |
| 35  | 24,37 | 19:42:45 | 07/08/2025 |

|    |       |          |            |
|----|-------|----------|------------|
| 36 | 24,37 | 19:42:46 | 07/08/2025 |
| 37 | 24,37 | 19:42:47 | 07/08/2025 |
| 38 | 24,37 | 19:42:48 | 07/08/2025 |
| 39 | 24,37 | 19:42:49 | 07/08/2025 |
| 40 | 24,37 | 19:42:50 | 07/08/2025 |
| 41 | 24,37 | 19:42:51 | 07/08/2025 |
| 42 | 24,37 | 19:42:52 | 07/08/2025 |
| 43 | 24,37 | 19:42:53 | 07/08/2025 |
| 44 | 24,37 | 19:42:54 | 07/08/2025 |
| 45 | 24,37 | 19:42:55 | 07/08/2025 |
| 46 | 24,37 | 19:42:56 | 07/08/2025 |
| 47 | 24,37 | 19:42:57 | 07/08/2025 |
| 48 | 24,36 | 19:42:58 | 07/08/2025 |
| 49 | 24,36 | 19:42:59 | 07/08/2025 |
| 50 | 24,36 | 19:43:00 | 07/08/2025 |
|    | 24,38 |          |            |

#### Tekanan maksimum Voc (volt) 200 volt

| Voc |        |          |            |
|-----|--------|----------|------------|
| No. | value  | time     | date       |
| 1   | 24,400 | 19:48:00 | 07/08/2025 |
| 2   | 24,400 | 19:48:01 | 07/08/2025 |
| 3   | 24,400 | 19:48:02 | 07/08/2025 |
| 4   | 24,400 | 19:48:03 | 07/08/2025 |
| 5   | 24,400 | 19:48:04 | 07/08/2025 |
| 6   | 24,390 | 19:48:05 | 07/08/2025 |
| 7   | 24,390 | 19:48:06 | 07/08/2025 |
| 8   | 24,390 | 19:48:07 | 07/08/2025 |
| 9   | 24,390 | 19:48:08 | 07/08/2025 |
| 10  | 24,390 | 19:48:09 | 07/08/2025 |
| 11  | 24,390 | 19:48:10 | 07/08/2025 |
| 12  | 24,390 | 19:48:11 | 07/08/2025 |
| 13  | 24,390 | 19:48:12 | 07/08/2025 |
| 14  | 24,390 | 19:48:13 | 07/08/2025 |
| 15  | 24,390 | 19:48:14 | 07/08/2025 |
| 16  | 24,390 | 19:48:15 | 07/08/2025 |
| 17  | 24,380 | 19:48:16 | 07/08/2025 |
| 18  | 24,380 | 19:48:17 | 07/08/2025 |
| 19  | 24,380 | 19:48:18 | 07/08/2025 |
| 20  | 24,380 | 19:48:19 | 07/08/2025 |
| 21  | 24,380 | 19:48:20 | 07/08/2025 |
| 22  | 24,380 | 19:48:21 | 07/08/2025 |
| 23  | 24,380 | 19:48:22 | 07/08/2025 |
| 24  | 24,380 | 19:48:23 | 07/08/2025 |
| 25  | 24,380 | 19:48:24 | 07/08/2025 |
| 26  | 24,380 | 19:48:25 | 07/08/2025 |
| 27  | 24,380 | 19:48:26 | 07/08/2025 |
| 28  | 24,380 | 19:48:27 | 07/08/2025 |
| 29  | 24,380 | 19:48:28 | 07/08/2025 |
| 30  | 24,380 | 19:48:29 | 07/08/2025 |
| 31  | 24,370 | 19:48:30 | 07/08/2025 |
| 32  | 24,370 | 19:48:31 | 07/08/2025 |

|    |        |          |            |
|----|--------|----------|------------|
| 33 | 24,370 | 19:48:32 | 07/08/2025 |
| 34 | 24,370 | 19:48:33 | 07/08/2025 |
| 35 | 24,370 | 19:48:34 | 07/08/2025 |
| 36 | 24,370 | 19:48:35 | 07/08/2025 |
| 37 | 24,370 | 19:48:36 | 07/08/2025 |
| 38 | 24,370 | 19:48:37 | 07/08/2025 |
| 39 | 24,370 | 19:48:38 | 07/08/2025 |
| 40 | 24,370 | 19:48:39 | 07/08/2025 |
| 41 | 24,370 | 19:48:40 | 07/08/2025 |
| 42 | 24,370 | 19:48:41 | 07/08/2025 |
| 43 | 24,370 | 19:48:42 | 07/08/2025 |
| 44 | 24,370 | 19:48:43 | 07/08/2025 |
| 45 | 24,370 | 19:48:44 | 07/08/2025 |
| 46 | 24,370 | 19:48:45 | 07/08/2025 |
| 47 | 24,370 | 19:48:46 | 07/08/2025 |
| 48 | 24,360 | 19:48:47 | 07/08/2025 |
| 49 | 24,360 | 19:48:48 | 07/08/2025 |
| 50 | 24,360 | 19:48:49 | 07/08/2025 |
|    | 24,380 |          |            |

Tekanan maksimum Voc (volt) 175 volt

| Voc |        |          |            |
|-----|--------|----------|------------|
| No. | value  | time     | date       |
| 1   | 23,680 | 19:53:05 | 07/08/2025 |
| 2   | 23,680 | 19:53:06 | 07/08/2025 |
| 3   | 23,680 | 19:53:07 | 07/08/2025 |
| 4   | 23,680 | 19:53:08 | 07/08/2025 |
| 5   | 23,680 | 19:53:09 | 07/08/2025 |
| 6   | 23,680 | 19:53:10 | 07/08/2025 |
| 7   | 23,680 | 19:53:11 | 07/08/2025 |
| 8   | 23,680 | 19:53:12 | 07/08/2025 |
| 9   | 23,680 | 19:53:13 | 07/08/2025 |
| 10  | 23,680 | 19:53:14 | 07/08/2025 |
| 11  | 23,680 | 19:53:15 | 07/08/2025 |
| 12  | 23,680 | 19:53:16 | 07/08/2025 |
| 13  | 23,680 | 19:53:17 | 07/08/2025 |
| 14  | 23,680 | 19:53:18 | 07/08/2025 |
| 15  | 23,680 | 19:53:19 | 07/08/2025 |
| 16  | 23,670 | 19:53:20 | 07/08/2025 |
| 17  | 23,670 | 19:53:21 | 07/08/2025 |
| 18  | 23,670 | 19:53:22 | 07/08/2025 |
| 19  | 23,670 | 19:53:23 | 07/08/2025 |
| 20  | 23,670 | 19:53:24 | 07/08/2025 |
| 21  | 23,670 | 19:53:25 | 07/08/2025 |
| 22  | 23,670 | 19:53:26 | 07/08/2025 |
| 23  | 23,670 | 19:53:27 | 07/08/2025 |
| 24  | 23,670 | 19:53:28 | 07/08/2025 |
| 25  | 23,670 | 19:53:29 | 07/08/2025 |
| 26  | 23,670 | 19:53:30 | 07/08/2025 |
| 27  | 23,670 | 19:53:31 | 07/08/2025 |
| 28  | 23,670 | 19:53:32 | 07/08/2025 |
| 29  | 23,670 | 19:53:33 | 07/08/2025 |

|    |        |          |            |
|----|--------|----------|------------|
| 30 | 23,670 | 19:53:34 | 07/08/2025 |
| 31 | 23,670 | 19:53:35 | 07/08/2025 |
| 32 | 23,670 | 19:53:36 | 07/08/2025 |
| 33 | 23,670 | 19:53:37 | 07/08/2025 |
| 34 | 23,670 | 19:53:38 | 07/08/2025 |
| 35 | 23,670 | 19:53:39 | 07/08/2025 |
| 36 | 23,670 | 19:53:40 | 07/08/2025 |
| 37 | 23,660 | 19:53:41 | 07/08/2025 |
| 38 | 23,670 | 19:53:42 | 07/08/2025 |
| 39 | 23,660 | 19:53:43 | 07/08/2025 |
| 40 | 23,660 | 19:53:44 | 07/08/2025 |
| 41 | 23,660 | 19:53:45 | 07/08/2025 |
| 42 | 23,660 | 19:53:46 | 07/08/2025 |
| 43 | 23,660 | 19:53:47 | 07/08/2025 |
| 44 | 23,660 | 19:53:48 | 07/08/2025 |
| 45 | 23,660 | 19:53:49 | 07/08/2025 |
| 46 | 23,660 | 19:53:50 | 07/08/2025 |
| 47 | 23,660 | 19:53:51 | 07/08/2025 |
| 48 | 23,660 | 19:53:52 | 07/08/2025 |
| 49 | 23,660 | 19:53:53 | 07/08/2025 |
| 50 | 23,660 | 19:53:54 | 07/08/2025 |
|    | 23,670 |          |            |

Tekanan maksimum Voc (volt) 150 volt

| Voc |        |          |            |
|-----|--------|----------|------------|
| No. | value  | time     | date       |
| 1   | 22,970 | 19:58:15 | 07/08/2025 |
| 2   | 22,970 | 19:58:16 | 07/08/2025 |
| 3   | 22,970 | 19:58:17 | 07/08/2025 |
| 4   | 22,970 | 19:58:18 | 07/08/2025 |
| 5   | 22,970 | 19:58:19 | 07/08/2025 |
| 6   | 22,970 | 19:58:20 | 07/08/2025 |
| 7   | 22,970 | 19:58:21 | 07/08/2025 |
| 8   | 22,970 | 19:58:22 | 07/08/2025 |
| 9   | 22,970 | 19:58:23 | 07/08/2025 |
| 10  | 22,970 | 19:58:24 | 07/08/2025 |
| 11  | 22,960 | 19:58:25 | 07/08/2025 |
| 12  | 22,960 | 19:58:26 | 07/08/2025 |
| 13  | 22,960 | 19:58:27 | 07/08/2025 |
| 14  | 22,960 | 19:58:28 | 07/08/2025 |
| 15  | 22,960 | 19:58:29 | 07/08/2025 |
| 16  | 22,960 | 19:58:30 | 07/08/2025 |
| 17  | 22,960 | 19:58:31 | 07/08/2025 |
| 18  | 22,960 | 19:58:32 | 07/08/2025 |
| 19  | 22,960 | 19:58:33 | 07/08/2025 |
| 20  | 22,960 | 19:58:34 | 07/08/2025 |
| 21  | 22,960 | 19:58:35 | 07/08/2025 |
| 22  | 22,960 | 19:58:36 | 07/08/2025 |
| 23  | 22,960 | 19:58:37 | 07/08/2025 |
| 24  | 22,960 | 19:58:38 | 07/08/2025 |
| 25  | 22,960 | 19:58:39 | 07/08/2025 |
| 26  | 22,960 | 19:58:40 | 07/08/2025 |

|    |        |          |            |
|----|--------|----------|------------|
| 27 | 22,960 | 19:58:41 | 07/08/2025 |
| 28 | 22,960 | 19:58:42 | 07/08/2025 |
| 29 | 22,960 | 19:58:43 | 07/08/2025 |
| 30 | 22,960 | 19:58:44 | 07/08/2025 |
| 31 | 22,960 | 19:58:45 | 07/08/2025 |
| 32 | 22,960 | 19:58:46 | 07/08/2025 |
| 33 | 22,960 | 19:58:47 | 07/08/2025 |
| 34 | 22,960 | 19:58:48 | 07/08/2025 |
| 35 | 22,960 | 19:58:49 | 07/08/2025 |
| 36 | 22,960 | 19:58:50 | 07/08/2025 |
| 37 | 22,960 | 19:58:51 | 07/08/2025 |
| 38 | 22,960 | 19:58:52 | 07/08/2025 |
| 39 | 22,960 | 19:58:53 | 07/08/2025 |
| 40 | 22,960 | 19:58:54 | 07/08/2025 |
| 41 | 22,960 | 19:58:55 | 07/08/2025 |
| 42 | 22,960 | 19:58:56 | 07/08/2025 |
| 43 | 22,960 | 19:58:57 | 07/08/2025 |
| 44 | 22,960 | 19:58:58 | 07/08/2025 |
| 45 | 22,960 | 19:58:59 | 07/08/2025 |
| 46 | 22,960 | 19:59:00 | 07/08/2025 |
| 47 | 22,960 | 19:59:01 | 07/08/2025 |
| 48 | 22,960 | 19:59:02 | 07/08/2025 |
| 49 | 22,960 | 19:59:03 | 07/08/2025 |
| 50 | 22,960 | 19:59:04 | 07/08/2025 |
|    | 22,962 |          |            |

Tekanan maksimum Voc (volt) 125 volt

| Voc |        |          |            |
|-----|--------|----------|------------|
| No. | value  | time     | date       |
| 1   | 21,950 | 20:00:09 | 07/08/2025 |
| 2   | 21,950 | 20:00:10 | 07/08/2025 |
| 3   | 21,950 | 20:00:11 | 07/08/2025 |
| 4   | 21,950 | 20:00:12 | 07/08/2025 |
| 5   | 21,950 | 20:00:13 | 07/08/2025 |
| 6   | 21,950 | 20:00:14 | 07/08/2025 |
| 7   | 21,950 | 20:00:15 | 07/08/2025 |
| 8   | 21,950 | 20:00:16 | 07/08/2025 |
| 9   | 21,950 | 20:00:17 | 07/08/2025 |
| 10  | 21,950 | 20:00:18 | 07/08/2025 |
| 11  | 21,950 | 20:00:19 | 07/08/2025 |
| 12  | 21,950 | 20:00:20 | 07/08/2025 |
| 13  | 21,950 | 20:00:21 | 07/08/2025 |
| 14  | 21,950 | 20:00:22 | 07/08/2025 |
| 15  | 21,950 | 20:00:23 | 07/08/2025 |
| 16  | 21,950 | 20:00:24 | 07/08/2025 |
| 17  | 21,950 | 20:00:25 | 07/08/2025 |
| 18  | 21,950 | 20:00:26 | 07/08/2025 |
| 19  | 21,950 | 20:00:27 | 07/08/2025 |
| 20  | 21,950 | 20:00:28 | 07/08/2025 |
| 21  | 21,950 | 20:00:29 | 07/08/2025 |
| 22  | 21,950 | 20:00:30 | 07/08/2025 |
| 23  | 21,950 | 20:00:31 | 07/08/2025 |

|    |        |          |            |
|----|--------|----------|------------|
| 24 | 21,950 | 20:00:32 | 07/08/2025 |
| 25 | 21,950 | 20:00:33 | 07/08/2025 |
| 26 | 21,950 | 20:00:34 | 07/08/2025 |
| 27 | 21,950 | 20:00:35 | 07/08/2025 |
| 28 | 21,950 | 20:00:36 | 07/08/2025 |
| 29 | 21,950 | 20:00:37 | 07/08/2025 |
| 30 | 21,950 | 20:00:38 | 07/08/2025 |
| 31 | 21,950 | 20:00:39 | 07/08/2025 |
| 32 | 21,950 | 20:00:40 | 07/08/2025 |
| 33 | 21,950 | 20:00:41 | 07/08/2025 |
| 34 | 21,950 | 20:00:42 | 07/08/2025 |
| 35 | 21,950 | 20:00:43 | 07/08/2025 |
| 36 | 21,950 | 20:00:44 | 07/08/2025 |
| 37 | 21,950 | 20:00:45 | 07/08/2025 |
| 38 | 21,950 | 20:00:46 | 07/08/2025 |
| 39 | 21,950 | 20:00:47 | 07/08/2025 |
| 40 | 21,950 | 20:00:48 | 07/08/2025 |
| 41 | 21,950 | 20:00:49 | 07/08/2025 |
| 42 | 21,950 | 20:00:50 | 07/08/2025 |
| 43 | 21,940 | 20:00:51 | 07/08/2025 |
| 44 | 21,940 | 20:00:52 | 07/08/2025 |
| 45 | 21,940 | 20:00:53 | 07/08/2025 |
| 46 | 21,950 | 20:00:54 | 07/08/2025 |
| 47 | 21,950 | 20:00:55 | 07/08/2025 |
| 48 | 21,950 | 20:00:56 | 07/08/2025 |
| 49 | 21,950 | 20:00:57 | 07/08/2025 |
| 50 | 21,940 | 20:00:58 | 07/08/2025 |
|    | 21,949 |          |            |

Tekanan maksimum Voc (volt) 100 volt

| Voc |        |          |            |
|-----|--------|----------|------------|
| No. | value  | time     | date       |
| 1   | 20,050 | 20:05:13 | 06/08/2025 |
| 2   | 20,050 | 20:05:14 | 06/08/2025 |
| 3   | 20,060 | 20:05:15 | 06/08/2025 |
| 4   | 20,060 | 20:05:16 | 06/08/2025 |
| 5   | 20,060 | 20:05:17 | 06/08/2025 |
| 6   | 20,060 | 20:05:18 | 06/08/2025 |
| 7   | 20,060 | 20:05:19 | 06/08/2025 |
| 8   | 20,060 | 20:05:20 | 06/08/2025 |
| 9   | 20,060 | 20:05:21 | 06/08/2025 |
| 10  | 20,060 | 20:05:22 | 06/08/2025 |
| 11  | 20,060 | 20:05:23 | 06/08/2025 |
| 12  | 20,060 | 20:05:24 | 06/08/2025 |
| 13  | 20,060 | 20:05:25 | 06/08/2025 |
| 14  | 20,060 | 20:05:26 | 06/08/2025 |
| 15  | 20,070 | 20:05:27 | 06/08/2025 |
| 16  | 20,070 | 20:05:28 | 06/08/2025 |
| 17  | 20,070 | 20:05:29 | 06/08/2025 |
| 18  | 20,070 | 20:05:30 | 06/08/2025 |
| 19  | 20,070 | 20:05:31 | 06/08/2025 |
| 20  | 20,070 | 20:05:32 | 06/08/2025 |

|    |        |          |            |
|----|--------|----------|------------|
| 21 | 20,070 | 20:05:33 | 06/08/2025 |
| 22 | 20,070 | 20:05:34 | 06/08/2025 |
| 23 | 20,070 | 20:05:35 | 06/08/2025 |
| 24 | 20,070 | 20:05:36 | 06/08/2025 |
| 25 | 20,070 | 20:05:37 | 06/08/2025 |
| 26 | 20,070 | 20:05:38 | 06/08/2025 |
| 27 | 20,070 | 20:05:39 | 06/08/2025 |
| 28 | 20,070 | 20:05:40 | 06/08/2025 |
| 29 | 20,070 | 20:05:41 | 06/08/2025 |
| 30 | 20,080 | 20:05:42 | 06/08/2025 |
| 31 | 20,080 | 20:05:43 | 06/08/2025 |
| 32 | 20,080 | 20:05:44 | 06/08/2025 |
| 33 | 20,080 | 20:05:45 | 06/08/2025 |
| 34 | 20,080 | 20:05:46 | 06/08/2025 |
| 35 | 20,080 | 20:05:47 | 06/08/2025 |
| 36 | 20,080 | 20:05:48 | 06/08/2025 |
| 37 | 20,080 | 20:05:49 | 06/08/2025 |
| 38 | 20,080 | 20:05:50 | 06/08/2025 |
| 39 | 20,080 | 20:05:51 | 06/08/2025 |
| 40 | 20,080 | 20:05:52 | 06/08/2025 |
| 41 | 20,080 | 20:05:53 | 06/08/2025 |
| 42 | 20,080 | 20:05:54 | 06/08/2025 |
| 43 | 20,080 | 20:05:55 | 06/08/2025 |
| 44 | 20,080 | 20:05:56 | 06/08/2025 |
| 45 | 20,080 | 20:05:57 | 06/08/2025 |
| 46 | 20,090 | 20:05:58 | 06/08/2025 |
| 47 | 20,080 | 20:05:59 | 06/08/2025 |
| 48 | 20,080 | 20:06:00 | 06/08/2025 |
| 49 | 20,080 | 20:06:01 | 06/08/2025 |
| 50 | 20,090 | 20:06:02 | 06/08/2025 |
|    | 20,071 |          |            |

Tekanan maksimum Voc (volt) 75 volt

| Voc |        |          |            |
|-----|--------|----------|------------|
| No. | value  | time     | Date       |
| 1   | 16,680 | 20:11:00 | 07/08/2025 |
| 2   | 16,680 | 20:11:01 | 07/08/2025 |
| 3   | 16,680 | 20:11:02 | 07/08/2025 |
| 4   | 16,680 | 20:11:03 | 07/08/2025 |
| 5   | 16,680 | 20:11:04 | 07/08/2025 |
| 6   | 16,680 | 20:11:05 | 07/08/2025 |
| 7   | 16,680 | 20:11:06 | 07/08/2025 |
| 8   | 16,680 | 20:11:07 | 07/08/2025 |
| 9   | 16,680 | 20:11:08 | 07/08/2025 |
| 10  | 16,680 | 20:11:09 | 07/08/2025 |
| 11  | 16,680 | 20:11:10 | 07/08/2025 |
| 12  | 16,680 | 20:11:11 | 07/08/2025 |
| 13  | 16,680 | 20:11:12 | 07/08/2025 |
| 14  | 16,680 | 20:11:13 | 07/08/2025 |
| 15  | 16,680 | 20:11:14 | 07/08/2025 |
| 16  | 16,680 | 20:11:15 | 07/08/2025 |
| 17  | 16,680 | 20:11:16 | 07/08/2025 |



|    |        |          |            |
|----|--------|----------|------------|
| 18 | 16,680 | 20:11:17 | 07/08/2025 |
| 19 | 16,680 | 20:11:18 | 07/08/2025 |
| 20 | 16,680 | 20:11:19 | 07/08/2025 |
| 21 | 16,680 | 20:11:20 | 07/08/2025 |
| 22 | 16,680 | 20:11:21 | 07/08/2025 |
| 23 | 16,690 | 20:11:22 | 07/08/2025 |
| 24 | 16,690 | 20:11:23 | 07/08/2025 |
| 25 | 16,690 | 20:11:24 | 07/08/2025 |
| 26 | 16,690 | 20:11:25 | 07/08/2025 |
| 27 | 16,690 | 20:11:26 | 07/08/2025 |
| 28 | 16,690 | 20:11:27 | 07/08/2025 |
| 29 | 16,690 | 20:11:28 | 07/08/2025 |
| 30 | 16,690 | 20:11:29 | 07/08/2025 |
| 31 | 16,700 | 20:11:30 | 07/08/2025 |
| 32 | 16,700 | 20:11:31 | 07/08/2025 |
| 33 | 16,700 | 20:11:32 | 07/08/2025 |
| 34 | 16,700 | 20:11:33 | 07/08/2025 |
| 35 | 16,700 | 20:11:34 | 07/08/2025 |
| 36 | 16,700 | 20:11:35 | 07/08/2025 |
| 37 | 16,710 | 20:11:36 | 07/08/2025 |
| 38 | 16,710 | 20:11:37 | 07/08/2025 |
| 39 | 16,710 | 20:11:38 | 07/08/2025 |
| 40 | 16,710 | 20:11:39 | 07/08/2025 |
| 41 | 16,710 | 20:11:40 | 07/08/2025 |
| 42 | 16,710 | 20:11:41 | 07/08/2025 |
| 43 | 16,710 | 20:11:42 | 07/08/2025 |
| 44 | 16,710 | 20:11:43 | 07/08/2025 |
| 45 | 16,710 | 20:11:44 | 07/08/2025 |
| 46 | 16,710 | 20:11:45 | 07/08/2025 |
| 47 | 16,710 | 20:11:46 | 07/08/2025 |
| 48 | 16,710 | 20:11:47 | 07/08/2025 |
| 49 | 16,710 | 20:11:48 | 07/08/2025 |
| 50 | 16,710 | 20:11:49 | 07/08/2025 |
|    | 16,692 |          |            |

Tabel lampiran 4 Kuat arus maksimum, Isc (A)

| No.       | Short circuit current , I (Ampere) |        |        |        |       |        |        |
|-----------|------------------------------------|--------|--------|--------|-------|--------|--------|
|           | Isc1                               | Isc2   | Isc3   | Isc4   | Isc5  | Isc6   | Isc7   |
| 1         | 1,179                              | 0,905  | 0,65   | 0,419  | 0,248 | 0,124  | 0,049  |
| 2         | 1,180                              | 0,905  | 0,649  | 0,418  | 0,248 | 0,124  | 0,048  |
| 3         | 1,181                              | 0,904  | 0,649  | 0,41`8 | 0,245 | 0,123  | 0,048  |
| 4         | 1,183                              | 0,902  | 0,448  | 0,419  | 0,247 | 0,125  | 0,049  |
| 5         | 1,184                              | 0,902  | 0,647  | 0,418  | 0,247 | 0,125  | 0,048  |
| Rata-rata | 236,9454                           | 0,9036 | 0,6086 | 0,4185 | 0,247 | 0,1242 | 0,0484 |

Tabel lampiran 5 Resistansi kabel, R (ohm)

| Resistansi polycrystalline |        |          |            |
|----------------------------|--------|----------|------------|
| No.                        | value  | time     | Date       |
| 1                          | 33,870 | 20.03.00 | 06/08/2025 |
| 2                          | 33,870 | 20.03.01 | 06/08/2025 |
| 3                          | 33,860 | 20.03.02 | 06/08/2025 |
| 4                          | 33,860 | 20.03.03 | 06/08/2025 |
| 5                          | 33,860 | 20.03.04 | 06/08/2025 |
| 6                          | 33,860 | 20.03.05 | 06/08/2025 |
| 7                          | 33,860 | 20.03.06 | 06/08/2025 |
| 8                          | 33,860 | 20.03.07 | 06/08/2025 |
| 9                          | 33,870 | 20.03.08 | 06/08/2025 |
| 10                         | 33,880 | 20.03.09 | 06/08/2025 |
| 11                         | 33,880 | 20.03.10 | 06/08/2025 |
| 12                         | 33,890 | 20.03.11 | 06/08/2025 |
| 13                         | 33,890 | 20.03.12 | 06/08/2025 |
| 14                         | 33,900 | 20.03.13 | 06/08/2025 |
| 15                         | 33,910 | 20.03.14 | 06/08/2025 |
| 16                         | 33,920 | 20.03.15 | 06/08/2025 |
| 17                         | 33,930 | 20.03.16 | 06/08/2025 |
| 18                         | 33,930 | 20.03.17 | 06/08/2025 |
| 19                         | 33,930 | 20.03.18 | 06/08/2025 |
| 20                         | 33,940 | 20.03.19 | 06/08/2025 |
| 21                         | 33,950 | 20.03.20 | 06/08/2025 |
| 22                         | 33,950 | 20.03.21 | 06/08/2025 |
| 23                         | 33,960 | 20.03.22 | 06/08/2025 |
| 24                         | 33,950 | 20.03.23 | 06/08/2025 |
| 25                         | 33,950 | 20.03.24 | 06/08/2025 |
| 26                         | 33,950 | 20.03.25 | 06/08/2025 |
| 27                         | 33,950 | 20.03.26 | 06/08/2025 |
| 28                         | 33,950 | 20.03.27 | 06/08/2025 |
| 29                         | 33,950 | 20.03.28 | 06/08/2025 |
| 30                         | 33,940 | 20.03.29 | 06/08/2025 |
| 31                         | 33,940 | 20.03.30 | 06/08/2025 |
| 32                         | 33,940 | 20.03.31 | 06/08/2025 |
| 33                         | 33,940 | 20.03.32 | 06/08/2025 |
| 34                         | 33,940 | 20.03.33 | 06/08/2025 |
| 35                         | 33,940 | 20.03.34 | 06/08/2025 |
| 36                         | 33,940 | 20.03.35 | 06/08/2025 |
| 37                         | 33,940 | 20.03.36 | 06/08/2025 |
| 38                         | 33,940 | 20.03.37 | 06/08/2025 |
| 39                         | 33,940 | 20.03.38 | 06/08/2025 |
| 40                         | 33,940 | 20.03.39 | 06/08/2025 |
| 41                         | 33,940 | 20.03.40 | 06/08/2025 |
| 42                         | 33,940 | 20.03.41 | 06/08/2025 |
| 43                         | 33,940 | 20.03.42 | 06/08/2025 |
| 44                         | 33,940 | 20.03.43 | 06/08/2025 |
| 45                         | 33,950 | 20.03.44 | 06/08/2025 |
| 46                         | 33,950 | 20.03.45 | 06/08/2025 |
| 47                         | 33,950 | 20.03.46 | 06/08/2025 |
| 48                         | 33,960 | 20.03.47 | 06/08/2025 |
| 49                         | 33,960 | 20.03.48 | 06/08/2025 |
| 50                         | 33,960 | 20.03.49 | 06/08/2025 |
|                            | 33,923 |          |            |

Tabel lampiran 6 Hasil pengukuran intensitas cahaya  
Pengukuran intensitas cahaya 225 Volt

| Tanggal             | Intensitas cahaya, Ir | satuan | Intensitas cahaya, Ir | satuan              |
|---------------------|-----------------------|--------|-----------------------|---------------------|
| 22:31:25 2025-08-05 | 74300                 | lux    | 586,97                | Watt/m <sup>2</sup> |
| 22:31:26 2025-08-05 | 74175                 | lux    | 585,98                | Watt/m <sup>2</sup> |
| 22:31:27 2025-08-05 | 74250                 | lux    | 586,58                | Watt/m <sup>2</sup> |
| 22:31:28 2025-08-05 | 74650                 | lux    | 589,74                | Watt/m <sup>2</sup> |
| 22:31:29 2025-08-05 | 74825                 | lux    | 591,12                | Watt/m <sup>2</sup> |
| 22:31:30 2025-08-05 | 74725                 | lux    | 590,33                | Watt/m <sup>2</sup> |
| 22:31:31 2025-08-05 | 74700                 | lux    | 590,13                | Watt/m <sup>2</sup> |
| 22:31:32 2025-08-05 | 74700                 | lux    | 590,13                | Watt/m <sup>2</sup> |
| 22:31:33 2025-08-05 | 74825                 | lux    | 591,12                | Watt/m <sup>2</sup> |
| 22:31:34 2025-08-05 | 75050                 | lux    | 592,90                | Watt/m <sup>2</sup> |
| 22:31:35 2025-08-05 | 74975                 | lux    | 592,30                | Watt/m <sup>2</sup> |
| 22:31:36 2025-08-05 | 74825                 | lux    | 591,12                | Watt/m <sup>2</sup> |
| 22:31:37 2025-08-05 | 74775                 | lux    | 590,72                | Watt/m <sup>2</sup> |
| 22:31:38 2025-08-05 | 74775                 | lux    | 590,72                | Watt/m <sup>2</sup> |
| 22:31:39 2025-08-05 | 75000                 | lux    | 592,50                | Watt/m <sup>2</sup> |
| 22:31:40 2025-08-05 | 74925                 | lux    | 591,91                | Watt/m <sup>2</sup> |
| 22:31:41 2025-08-05 | 74850                 | lux    | 591,32                | Watt/m <sup>2</sup> |
| 22:31:42 2025-08-05 | 74875                 | lux    | 591,51                | Watt/m <sup>2</sup> |
| 22:31:43 2025-08-05 | 74850                 | lux    | 591,32                | Watt/m <sup>2</sup> |
| 22:31:44 2025-08-05 | 75175                 | lux    | 593,88                | Watt/m <sup>2</sup> |
| 22:31:45 2025-08-05 | 75000                 | lux    | 592,50                | Watt/m <sup>2</sup> |
| 22:31:46 2025-08-05 | 74975                 | lux    | 592,30                | Watt/m <sup>2</sup> |
| 22:31:47 2025-08-05 | 74975                 | lux    | 592,30                | Watt/m <sup>2</sup> |
| 22:31:48 2025-08-05 | 75075                 | lux    | 593,09                | Watt/m <sup>2</sup> |
| 22:31:49 2025-08-05 | 75200                 | lux    | 594,08                | Watt/m <sup>2</sup> |
| 22:31:50 2025-08-05 | 75150                 | lux    | 593,69                | Watt/m <sup>2</sup> |
| 22:31:51 2025-08-05 | 75150                 | lux    | 593,69                | Watt/m <sup>2</sup> |
| 22:31:52 2025-08-05 | 75150                 | lux    | 593,69                | Watt/m <sup>2</sup> |
| 22:31:53 2025-08-05 | 75150                 | lux    | 593,69                | Watt/m <sup>2</sup> |
| 22:31:54 2025-08-05 | 75275                 | lux    | 594,67                | Watt/m <sup>2</sup> |
| 22:31:55 2025-08-05 | 75300                 | lux    | 594,87                | Watt/m <sup>2</sup> |
| 22:31:56 2025-08-05 | 75100                 | lux    | 593,29                | Watt/m <sup>2</sup> |
| 22:31:57 2025-08-05 | 75150                 | lux    | 593,69                | Watt/m <sup>2</sup> |
| 22:31:58 2025-08-05 | 75200                 | lux    | 594,08                | Watt/m <sup>2</sup> |

|                     |       |     |        |         |
|---------------------|-------|-----|--------|---------|
| 22:31:59 2025-08-05 | 75325 | lux | 595,07 | Watt/m² |
| 22:32:00 2025-08-05 | 75275 | lux | 594,67 | Watt/m² |
| 22:32:01 2025-08-05 | 75275 | lux | 594,67 | Watt/m² |
| 22:32:02 2025-08-05 | 75175 | lux | 593,88 | Watt/m² |
| 22:32:03 2025-08-05 | 74725 | lux | 590,33 | Watt/m² |
| 22:32:04 2025-08-05 | 74850 | lux | 591,32 | Watt/m² |
| 22:32:05 2025-08-05 | 75050 | lux | 592,90 | Watt/m² |
| 22:32:06 2025-08-05 | 74775 | lux | 590,72 | Watt/m² |
| 22:32:07 2025-08-05 | 74725 | lux | 590,33 | Watt/m² |
| 22:32:08 2025-08-05 | 74725 | lux | 590,33 | Watt/m² |
| 22:32:09 2025-08-05 | 74700 | lux | 590,13 | Watt/m² |
| 22:32:10 2025-08-05 | 75300 | lux | 594,87 | Watt/m² |
| 22:32:11 2025-08-05 | 75325 | lux | 595,07 | Watt/m² |
| 22:32:12 2025-08-05 | 75400 | lux | 595,66 | Watt/m² |
| 22:32:13 2025-08-05 | 75400 | lux | 595,66 | Watt/m² |
| 22:32:14 2025-08-05 | 75450 | lux | 596,06 | Watt/m² |
| 22:32:15 2025-08-05 | 74975 | lux | 592,30 | Watt/m² |
| 22:32:16 2025-08-05 | 74850 | lux | 591,32 | Watt/m² |
| 22:32:17 2025-08-05 | 74825 | lux | 591,12 | Watt/m² |
| 22:32:18 2025-08-05 | 74875 | lux | 591,51 | Watt/m² |
| 22:32:19 2025-08-05 | 74875 | lux | 591,51 | Watt/m² |
| 22:32:20 2025-08-05 | 75075 | lux | 593,09 | Watt/m² |
| 22:32:21 2025-08-05 | 75425 | lux | 595,86 | Watt/m² |
| 22:32:22 2025-08-05 | 75450 | lux | 596,06 | Watt/m² |
| 22:32:23 2025-08-05 | 75450 | lux | 596,06 | Watt/m² |
| 22:32:24 2025-08-05 | 75625 | lux | 597,44 | Watt/m² |
| 22:32:25 2025-08-05 | 75625 | lux | 597,44 | Watt/m² |
| 22:32:26 2025-08-05 | 75575 | lux | 597,04 | Watt/m² |
| 22:32:27 2025-08-05 | 75575 | lux | 597,04 | Watt/m² |
| 22:32:28 2025-08-05 | 75650 | lux | 597,64 | Watt/m² |
| 22:32:29 2025-08-05 | 75675 | lux | 597,83 | Watt/m² |
| 22:32:30 2025-08-05 | 75700 | lux | 598,03 | Watt/m² |
| 22:32:31 2025-08-05 | 75650 | lux | 597,64 | Watt/m² |
| 22:32:32 2025-08-05 | 75700 | lux | 598,03 | Watt/m² |
| 22:32:33 2025-08-05 | 75675 | lux | 597,83 | Watt/m² |
| 22:32:34 2025-08-05 | 75625 | lux | 597,44 | Watt/m² |

|                     |       |     |        |                     |
|---------------------|-------|-----|--------|---------------------|
| 22:32:35 2025-08-05 | 75850 | lux | 599,22 | Watt/m <sup>2</sup> |
| 22:32:36 2025-08-05 | 75650 | lux | 597,64 | Watt/m <sup>2</sup> |
| 22:32:37 2025-08-05 | 75650 | lux | 597,64 | Watt/m <sup>2</sup> |
| 22:32:38 2025-08-05 | 75625 | lux | 597,44 | Watt/m <sup>2</sup> |
| 22:32:39 2025-08-05 | 75625 | lux | 597,44 | Watt/m <sup>2</sup> |
| 22:32:40 2025-08-05 | 75700 | lux | 598,03 | Watt/m <sup>2</sup> |
| 22:32:41 2025-08-05 | 75700 | lux | 598,03 | Watt/m <sup>2</sup> |
| 22:32:42 2025-08-05 | 75750 | lux | 598,43 | Watt/m <sup>2</sup> |
| 22:32:43 2025-08-05 | 75700 | lux | 598,03 | Watt/m <sup>2</sup> |
| 22:32:44 2025-08-05 | 75750 | lux | 598,43 | Watt/m <sup>2</sup> |
| 22:32:45 2025-08-05 | 76000 | lux | 600,40 | Watt/m <sup>2</sup> |
| 22:32:46 2025-08-05 | 75850 | lux | 599,22 | Watt/m <sup>2</sup> |
| 22:32:47 2025-08-05 | 75800 | lux | 598,82 | Watt/m <sup>2</sup> |
| 22:32:48 2025-08-05 | 75800 | lux | 598,82 | Watt/m <sup>2</sup> |
| 22:32:49 2025-08-05 | 75800 | lux | 598,82 | Watt/m <sup>2</sup> |
| 22:32:50 2025-08-05 | 75900 | lux | 599,61 | Watt/m <sup>2</sup> |
| 22:32:51 2025-08-05 | 75775 | lux | 598,62 | Watt/m <sup>2</sup> |
| 22:32:52 2025-08-05 | 75700 | lux | 598,03 | Watt/m <sup>2</sup> |
| 22:32:53 2025-08-05 | 75700 | lux | 598,03 | Watt/m <sup>2</sup> |
| 22:32:54 2025-08-05 | 75775 | lux | 598,62 | Watt/m <sup>2</sup> |
| 22:32:55 2025-08-05 | 75850 | lux | 599,22 | Watt/m <sup>2</sup> |
| 22:32:56 2025-08-05 | 75975 | lux | 600,20 | Watt/m <sup>2</sup> |
| 22:32:57 2025-08-05 | 75775 | lux | 598,62 | Watt/m <sup>2</sup> |
| 22:32:58 2025-08-05 | 75850 | lux | 599,22 | Watt/m <sup>2</sup> |
| 22:32:59 2025-08-05 | 75800 | lux | 598,82 | Watt/m <sup>2</sup> |
| 22:33:00 2025-08-05 | 75800 | lux | 598,82 | Watt/m <sup>2</sup> |
| 22:33:01 2025-08-05 | 75800 | lux | 598,82 | Watt/m <sup>2</sup> |
| 22:33:02 2025-08-05 | 75850 | lux | 599,22 | Watt/m <sup>2</sup> |
| Rata-rata           | 75288 |     | 594,78 |                     |

Pengukuran intensitas cahaya 200 Volt

| Tanggal             | Intensitas cahaya, Ir | satuan | Intensitas cahaya, Ir | satuan              |
|---------------------|-----------------------|--------|-----------------------|---------------------|
| 22:38:33 2025-08-05 | 72398                 | lux    | 571,94                | Watt/m <sup>2</sup> |
| 22:38:34 2025-08-05 | 72405                 | lux    | 572,00                | Watt/m <sup>2</sup> |
| 22:38:35 2025-08-05 | 72510                 | lux    | 572,83                | Watt/m <sup>2</sup> |
| 22:38:36 2025-08-05 | 72360                 | lux    | 571,64                | Watt/m <sup>2</sup> |
| 22:38:37 2025-08-05 | 72300                 | lux    | 571,17                | Watt/m <sup>2</sup> |
| 22:38:38 2025-08-05 | 72270                 | lux    | 570,93                | Watt/m <sup>2</sup> |
| 22:38:39 2025-08-05 | 72218                 | lux    | 570,52                | Watt/m <sup>2</sup> |
| 22:38:40 2025-08-05 | 72330                 | lux    | 571,41                | Watt/m <sup>2</sup> |
| 22:38:41 2025-08-05 | 72053                 | lux    | 569,21                | Watt/m <sup>2</sup> |
| 22:38:42 2025-08-05 | 71880                 | lux    | 567,85                | Watt/m <sup>2</sup> |
| 22:38:43 2025-08-05 | 71993                 | lux    | 568,74                | Watt/m <sup>2</sup> |
| 22:38:44 2025-08-05 | 71948                 | lux    | 568,39                | Watt/m <sup>2</sup> |
| 22:38:45 2025-08-05 | 72113                 | lux    | 569,69                | Watt/m <sup>2</sup> |
| 22:38:46 2025-08-05 | 71970                 | lux    | 568,56                | Watt/m <sup>2</sup> |
| 22:38:47 2025-08-05 | 72008                 | lux    | 568,86                | Watt/m <sup>2</sup> |
| 22:38:48 2025-08-05 | 71918                 | lux    | 568,15                | Watt/m <sup>2</sup> |
| 22:38:49 2025-08-05 | 71948                 | lux    | 568,39                | Watt/m <sup>2</sup> |
| 22:38:50 2025-08-05 | 72098                 | lux    | 569,57                | Watt/m <sup>2</sup> |
| 22:38:51 2025-08-05 | 72203                 | lux    | 570,40                | Watt/m <sup>2</sup> |
| 22:38:52 2025-08-05 | 71985                 | lux    | 568,68                | Watt/m <sup>2</sup> |
| 22:38:53 2025-08-05 | 71918                 | lux    | 568,15                | Watt/m <sup>2</sup> |
| 22:38:54 2025-08-05 | 71918                 | lux    | 568,15                | Watt/m <sup>2</sup> |
| 22:38:55 2025-08-05 | 72075                 | lux    | 569,39                | Watt/m <sup>2</sup> |
| 22:38:56 2025-08-05 | 72030                 | lux    | 569,04                | Watt/m <sup>2</sup> |
| 22:38:57 2025-08-05 | 72098                 | lux    | 569,57                | Watt/m <sup>2</sup> |
| 22:38:58 2025-08-05 | 72465                 | lux    | 572,47                | Watt/m <sup>2</sup> |
| 22:38:59 2025-08-05 | 72540                 | lux    | 573,07                | Watt/m <sup>2</sup> |
| 22:39:00 2025-08-05 | 72675                 | lux    | 574,13                | Watt/m <sup>2</sup> |
| 22:39:01 2025-08-05 | 72810                 | lux    | 575,20                | Watt/m <sup>2</sup> |

|                     |       |     |        |                     |
|---------------------|-------|-----|--------|---------------------|
| 22:39:02 2025-08-05 | 72465 | lux | 572,47 | Watt/m <sup>2</sup> |
| 22:39:03 2025-08-05 | 72465 | lux | 572,47 | Watt/m <sup>2</sup> |
| 22:39:04 2025-08-05 | 72578 | lux | 573,36 | Watt/m <sup>2</sup> |
| 22:39:05 2025-08-05 | 72705 | lux | 574,37 | Watt/m <sup>2</sup> |
| 22:39:06 2025-08-05 | 72563 | lux | 573,24 | Watt/m <sup>2</sup> |
| 22:39:07 2025-08-05 | 72533 | lux | 573,01 | Watt/m <sup>2</sup> |
| 22:39:08 2025-08-05 | 72578 | lux | 573,36 | Watt/m <sup>2</sup> |
| 22:39:09 2025-08-05 | 72578 | lux | 573,36 | Watt/m <sup>2</sup> |
| 22:39:10 2025-08-05 | 72750 | lux | 574,73 | Watt/m <sup>2</sup> |
| 22:39:11 2025-08-05 | 72818 | lux | 575,26 | Watt/m <sup>2</sup> |
| 22:39:12 2025-08-05 | 72645 | lux | 573,90 | Watt/m <sup>2</sup> |
| 22:39:13 2025-08-05 | 72638 | lux | 573,84 | Watt/m <sup>2</sup> |
| 22:39:14 2025-08-05 | 72683 | lux | 574,19 | Watt/m <sup>2</sup> |
| 22:39:15 2025-08-05 | 72780 | lux | 574,96 | Watt/m <sup>2</sup> |
| 22:39:16 2025-08-05 | 72683 | lux | 574,19 | Watt/m <sup>2</sup> |
| 22:39:17 2025-08-05 | 72750 | lux | 574,73 | Watt/m <sup>2</sup> |
| 22:39:18 2025-08-05 | 72638 | lux | 573,84 | Watt/m <sup>2</sup> |
| 22:39:19 2025-08-05 | 72705 | lux | 574,37 | Watt/m <sup>2</sup> |
| 22:39:20 2025-08-05 | 72705 | lux | 574,37 | Watt/m <sup>2</sup> |
| 22:39:21 2025-08-05 | 72953 | lux | 576,32 | Watt/m <sup>2</sup> |
| 22:39:22 2025-08-05 | 72803 | lux | 575,14 | Watt/m <sup>2</sup> |
| 22:39:23 2025-08-05 | 72743 | lux | 574,67 | Watt/m <sup>2</sup> |
| 22:39:24 2025-08-05 | 72780 | lux | 574,96 | Watt/m <sup>2</sup> |
| 22:39:25 2025-08-05 | 72758 | lux | 574,78 | Watt/m <sup>2</sup> |
| 22:39:26 2025-08-05 | 72848 | lux | 575,50 | Watt/m <sup>2</sup> |
| 22:39:27 2025-08-05 | 72758 | lux | 574,78 | Watt/m <sup>2</sup> |
| 22:39:28 2025-08-05 | 72750 | lux | 574,73 | Watt/m <sup>2</sup> |
| 22:39:29 2025-08-05 | 72720 | lux | 574,49 | Watt/m <sup>2</sup> |
| 22:39:30 2025-08-05 | 72743 | lux | 574,67 | Watt/m <sup>2</sup> |
| 22:39:31 2025-08-05 | 72953 | lux | 576,32 | Watt/m <sup>2</sup> |
| 22:39:32 2025-08-05 | 72713 | lux | 574,43 | Watt/m <sup>2</sup> |
| 22:39:33 2025-08-05 | 72653 | lux | 573,95 | Watt/m <sup>2</sup> |
| 22:39:34 2025-08-05 | 72608 | lux | 573,60 | Watt/m <sup>2</sup> |
| 22:39:35 2025-08-05 | 72653 | lux | 573,95 | Watt/m <sup>2</sup> |
| 22:39:36 2025-08-05 | 72675 | lux | 574,13 | Watt/m <sup>2</sup> |
| 22:39:37 2025-08-05 | 72563 | lux | 573,24 | Watt/m <sup>2</sup> |

|                     |       |     |        |                     |
|---------------------|-------|-----|--------|---------------------|
| 22:39:38 2025-08-05 | 72563 | lux | 573,24 | Watt/m <sup>2</sup> |
| 22:39:39 2025-08-05 | 72510 | lux | 572,83 | Watt/m <sup>2</sup> |
| 22:39:40 2025-08-05 | 72600 | lux | 573,54 | Watt/m <sup>2</sup> |
| 22:39:41 2025-08-05 | 72720 | lux | 574,49 | Watt/m <sup>2</sup> |
| 22:39:42 2025-08-05 | 72540 | lux | 573,07 | Watt/m <sup>2</sup> |
| 22:39:43 2025-08-05 | 72465 | lux | 572,47 | Watt/m <sup>2</sup> |
| 22:39:44 2025-08-05 | 72465 | lux | 572,47 | Watt/m <sup>2</sup> |
| 22:39:45 2025-08-05 | 72525 | lux | 572,95 | Watt/m <sup>2</sup> |
| 22:39:46 2025-08-05 | 72563 | lux | 573,24 | Watt/m <sup>2</sup> |
| 22:39:47 2025-08-05 | 72503 | lux | 572,77 | Watt/m <sup>2</sup> |
| 22:39:48 2025-08-05 | 72473 | lux | 572,53 | Watt/m <sup>2</sup> |
| 22:39:49 2025-08-05 | 72495 | lux | 572,71 | Watt/m <sup>2</sup> |
| 22:39:50 2025-08-05 | 72495 | lux | 572,71 | Watt/m <sup>2</sup> |
| 22:39:51 2025-08-05 | 72675 | lux | 574,13 | Watt/m <sup>2</sup> |
| 22:39:52 2025-08-05 | 72465 | lux | 572,47 | Watt/m <sup>2</sup> |
| 22:39:53 2025-08-05 | 72428 | lux | 572,18 | Watt/m <sup>2</sup> |
| 22:39:54 2025-08-05 | 72480 | lux | 572,59 | Watt/m <sup>2</sup> |
| 22:39:55 2025-08-05 | 72443 | lux | 572,30 | Watt/m <sup>2</sup> |
| 22:39:56 2025-08-05 | 72540 | lux | 573,07 | Watt/m <sup>2</sup> |
| 22:39:57 2025-08-05 | 72458 | lux | 572,41 | Watt/m <sup>2</sup> |
| 22:39:58 2025-08-05 | 72428 | lux | 572,18 | Watt/m <sup>2</sup> |
| 22:39:59 2025-08-05 | 72375 | lux | 571,76 | Watt/m <sup>2</sup> |
| 22:40:00 2025-08-05 | 72338 | lux | 571,47 | Watt/m <sup>2</sup> |
| 22:40:01 2025-08-05 | 72570 | lux | 573,30 | Watt/m <sup>2</sup> |
| 22:40:02 2025-08-05 | 72458 | lux | 572,41 | Watt/m <sup>2</sup> |
| 22:40:03 2025-08-05 | 72428 | lux | 572,18 | Watt/m <sup>2</sup> |
| 22:40:04 2025-08-05 | 72390 | lux | 571,88 | Watt/m <sup>2</sup> |
| 22:40:05 2025-08-05 | 71985 | lux | 568,68 | Watt/m <sup>2</sup> |
| 22:40:06 2025-08-05 | 72188 | lux | 570,28 | Watt/m <sup>2</sup> |
| 22:40:07 2025-08-05 | 72015 | lux | 568,92 | Watt/m <sup>2</sup> |
| 22:40:08 2025-08-05 | 72030 | lux | 569,04 | Watt/m <sup>2</sup> |
| 22:40:09 2025-08-05 | 71648 | lux | 566,02 | Watt/m <sup>2</sup> |
| 22:40:10 2025-08-05 | 71670 | lux | 566,19 | Watt/m <sup>2</sup> |
| Rata-rata           | 72442 |     | 572,29 |                     |



Pengukuran intensitas cahaya 175 Volt

| Tanggal             | Intensitas cahaya, Ir | satuan | Intensitas cahaya, Ir | satuan              |
|---------------------|-----------------------|--------|-----------------------|---------------------|
| 22:48:16 2025-08-05 | 70124                 | lux    | 553,98                | Watt/m <sup>2</sup> |
| 22:48:17 2025-08-05 | 70139                 | lux    | 554,09                | Watt/m <sup>2</sup> |
| 22:48:18 2025-08-05 | 70267                 | lux    | 555,11                | Watt/m <sup>2</sup> |
| 22:48:19 2025-08-05 | 70380                 | lux    | 556,00                | Watt/m <sup>2</sup> |
| 22:48:20 2025-08-05 | 70124                 | lux    | 553,98                | Watt/m <sup>2</sup> |
| 22:48:21 2025-08-05 | 70025                 | lux    | 553,20                | Watt/m <sup>2</sup> |
| 22:48:22 2025-08-05 | 70067                 | lux    | 553,53                | Watt/m <sup>2</sup> |
| 22:48:23 2025-08-05 | 70110                 | lux    | 553,87                | Watt/m <sup>2</sup> |
| 22:48:24 2025-08-05 | 70082                 | lux    | 553,65                | Watt/m <sup>2</sup> |
| 22:48:25 2025-08-05 | 69726                 | lux    | 550,84                | Watt/m <sup>2</sup> |
| 22:48:26 2025-08-05 | 69726                 | lux    | 550,84                | Watt/m <sup>2</sup> |
| 22:48:27 2025-08-05 | 69954                 | lux    | 552,63                | Watt/m <sup>2</sup> |
| 22:48:28 2025-08-05 | 70053                 | lux    | 553,42                | Watt/m <sup>2</sup> |
| 22:48:29 2025-08-05 | 70181                 | lux    | 554,43                | Watt/m <sup>2</sup> |
| 22:48:30 2025-08-05 | 69954                 | lux    | 552,63                | Watt/m <sup>2</sup> |
| 22:48:31 2025-08-05 | 69883                 | lux    | 552,07                | Watt/m <sup>2</sup> |
| 22:48:32 2025-08-05 | 69868                 | lux    | 551,96                | Watt/m <sup>2</sup> |
| 22:48:33 2025-08-05 | 69911                 | lux    | 552,30                | Watt/m <sup>2</sup> |
| 22:48:34 2025-08-05 | 69940                 | lux    | 552,52                | Watt/m <sup>2</sup> |
| 22:48:35 2025-08-05 | 69556                 | lux    | 549,49                | Watt/m <sup>2</sup> |
| 22:48:36 2025-08-05 | 69627                 | lux    | 550,05                | Watt/m <sup>2</sup> |
| 22:48:37 2025-08-05 | 69712                 | lux    | 550,72                | Watt/m <sup>2</sup> |
| 22:48:38 2025-08-05 | 69954                 | lux    | 552,63                | Watt/m <sup>2</sup> |
| 22:48:39 2025-08-05 | 70025                 | lux    | 553,20                | Watt/m <sup>2</sup> |
| 22:48:40 2025-08-05 | 69755                 | lux    | 551,06                | Watt/m <sup>2</sup> |
| 22:48:41 2025-08-05 | 69740                 | lux    | 550,95                | Watt/m <sup>2</sup> |
| 22:48:42 2025-08-05 | 69726                 | lux    | 550,84                | Watt/m <sup>2</sup> |
| 22:48:43 2025-08-05 | 69584                 | lux    | 549,71                | Watt/m <sup>2</sup> |
| 22:48:44 2025-08-05 | 69627                 | lux    | 550,05                | Watt/m <sup>2</sup> |
| 22:48:45 2025-08-05 | 69556                 | lux    | 549,49                | Watt/m <sup>2</sup> |
| 22:48:46 2025-08-05 | 69556                 | lux    | 549,49                | Watt/m <sup>2</sup> |
| 22:48:47 2025-08-05 | 69484                 | lux    | 548,93                | Watt/m <sup>2</sup> |
| 22:48:48 2025-08-05 | 69484                 | lux    | 548,93                | Watt/m <sup>2</sup> |
| 22:48:49 2025-08-05 | 69684                 | lux    | 550,50                | Watt/m <sup>2</sup> |

|                     |       |     |        |         |
|---------------------|-------|-----|--------|---------|
| 22:48:50 2025-08-05 | 69399 | lux | 548,25 | Watt/m² |
| 22:48:51 2025-08-05 | 69356 | lux | 547,92 | Watt/m² |
| 22:48:52 2025-08-05 | 69356 | lux | 547,92 | Watt/m² |
| 22:48:53 2025-08-05 | 69300 | lux | 547,47 | Watt/m² |
| 22:48:54 2025-08-05 | 69470 | lux | 548,81 | Watt/m² |
| 22:48:55 2025-08-05 | 69385 | lux | 548,14 | Watt/m² |
| 22:48:56 2025-08-05 | 69413 | lux | 548,37 | Watt/m² |
| 22:48:57 2025-08-05 | 69428 | lux | 548,48 | Watt/m² |
| 22:48:58 2025-08-05 | 69484 | lux | 548,93 | Watt/m² |
| 22:48:59 2025-08-05 | 69726 | lux | 550,84 | Watt/m² |
| 22:49:00 2025-08-05 | 69669 | lux | 550,39 | Watt/m² |
| 22:49:01 2025-08-05 | 69584 | lux | 549,71 | Watt/m² |
| 22:49:02 2025-08-05 | 69612 | lux | 549,94 | Watt/m² |
| 22:49:03 2025-08-05 | 69541 | lux | 549,38 | Watt/m² |
| 22:49:04 2025-08-05 | 69684 | lux | 550,50 | Watt/m² |
| 22:49:05 2025-08-05 | 69527 | lux | 549,26 | Watt/m² |
| 22:49:06 2025-08-05 | 69556 | lux | 549,49 | Watt/m² |
| 22:49:07 2025-08-05 | 69556 | lux | 549,49 | Watt/m² |
| 22:49:08 2025-08-05 | 69584 | lux | 549,71 | Watt/m² |
| 22:49:09 2025-08-05 | 69755 | lux | 551,06 | Watt/m² |
| 22:49:10 2025-08-05 | 69655 | lux | 550,28 | Watt/m² |
| 22:49:11 2025-08-05 | 69541 | lux | 549,38 | Watt/m² |
| 22:49:12 2025-08-05 | 69484 | lux | 548,93 | Watt/m² |
| 22:49:13 2025-08-05 | 69484 | lux | 548,93 | Watt/m² |
| 22:49:14 2025-08-05 | 69598 | lux | 549,83 | Watt/m² |
| 22:49:15 2025-08-05 | 69484 | lux | 548,93 | Watt/m² |
| 22:49:16 2025-08-05 | 69527 | lux | 549,26 | Watt/m² |
| 22:49:17 2025-08-05 | 69470 | lux | 548,81 | Watt/m² |
| 22:49:18 2025-08-05 | 69484 | lux | 548,93 | Watt/m² |
| 22:49:19 2025-08-05 | 69712 | lux | 550,72 | Watt/m² |
| 22:49:20 2025-08-05 | 69598 | lux | 549,83 | Watt/m² |
| 22:49:21 2025-08-05 | 69456 | lux | 548,70 | Watt/m² |
| 22:49:22 2025-08-05 | 69541 | lux | 549,38 | Watt/m² |
| 22:49:23 2025-08-05 | 69484 | lux | 548,93 | Watt/m² |
| 22:49:24 2025-08-05 | 69541 | lux | 549,38 | Watt/m² |
| 22:49:25 2025-08-05 | 69428 | lux | 548,48 | Watt/m² |

|                     |       |     |        |                     |
|---------------------|-------|-----|--------|---------------------|
| 22:49:26 2025-08-05 | 69413 | lux | 548,37 | Watt/m <sup>2</sup> |
| 22:49:27 2025-08-05 | 69413 | lux | 548,37 | Watt/m <sup>2</sup> |
| 22:49:28 2025-08-05 | 69456 | lux | 548,70 | Watt/m <sup>2</sup> |
| 22:49:29 2025-08-05 | 69584 | lux | 549,71 | Watt/m <sup>2</sup> |
| 22:49:30 2025-08-05 | 69612 | lux | 549,94 | Watt/m <sup>2</sup> |
| 22:49:31 2025-08-05 | 69342 | lux | 547,80 | Watt/m <sup>2</sup> |
| 22:49:32 2025-08-05 | 69385 | lux | 548,14 | Watt/m <sup>2</sup> |
| 22:49:33 2025-08-05 | 69356 | lux | 547,92 | Watt/m <sup>2</sup> |
| 22:49:34 2025-08-05 | 69499 | lux | 549,04 | Watt/m <sup>2</sup> |
| 22:49:35 2025-08-05 | 69399 | lux | 548,25 | Watt/m <sup>2</sup> |
| 22:49:36 2025-08-05 | 69428 | lux | 548,48 | Watt/m <sup>2</sup> |
| 22:49:37 2025-08-05 | 69413 | lux | 548,37 | Watt/m <sup>2</sup> |
| 22:49:38 2025-08-05 | 69428 | lux | 548,48 | Watt/m <sup>2</sup> |
| 22:49:39 2025-08-05 | 69484 | lux | 548,93 | Watt/m <sup>2</sup> |
| 22:49:40 2025-08-05 | 69584 | lux | 549,71 | Watt/m <sup>2</sup> |
| 22:49:41 2025-08-05 | 69356 | lux | 547,92 | Watt/m <sup>2</sup> |
| 22:49:42 2025-08-05 | 69342 | lux | 547,80 | Watt/m <sup>2</sup> |
| 22:49:43 2025-08-05 | 69356 | lux | 547,92 | Watt/m <sup>2</sup> |
| 22:49:44 2025-08-05 | 69470 | lux | 548,81 | Watt/m <sup>2</sup> |
| 22:49:45 2025-08-05 | 69157 | lux | 546,34 | Watt/m <sup>2</sup> |
| 22:49:46 2025-08-05 | 69285 | lux | 547,35 | Watt/m <sup>2</sup> |
| 22:49:47 2025-08-05 | 69100 | lux | 545,89 | Watt/m <sup>2</sup> |
| 22:49:48 2025-08-05 | 69100 | lux | 545,89 | Watt/m <sup>2</sup> |
| 22:49:49 2025-08-05 | 69399 | lux | 548,25 | Watt/m <sup>2</sup> |
| 22:49:50 2025-08-05 | 69214 | lux | 546,79 | Watt/m <sup>2</sup> |
| 22:49:51 2025-08-05 | 69285 | lux | 547,35 | Watt/m <sup>2</sup> |
| 22:49:52 2025-08-05 | 69143 | lux | 546,23 | Watt/m <sup>2</sup> |
| 22:49:53 2025-08-05 | 68859 | lux | 543,98 | Watt/m <sup>2</sup> |
| Rata-rata           | 69595 |     | 549,80 |                     |

Pengukuran intensitas cahaya 150 Volt

| Tanggal             | Intensitas cahaya, Ir | satuan | Intensitas cahaya, Ir | satuan              |
|---------------------|-----------------------|--------|-----------------------|---------------------|
| 22:53:50 2025-08-05 | 66664                 | lux    | 526,65                | Watt/m <sup>2</sup> |
| 22:53:51 2025-08-05 | 66641                 | lux    | 526,46                | Watt/m <sup>2</sup> |
| 22:53:52 2025-08-05 | 66617                 | lux    | 526,27                | Watt/m <sup>2</sup> |
| 22:53:53 2025-08-05 | 66879                 | lux    | 528,34                | Watt/m <sup>2</sup> |
| 22:53:54 2025-08-05 | 66807                 | lux    | 527,78                | Watt/m <sup>2</sup> |
| 22:53:55 2025-08-05 | 66664                 | lux    | 526,65                | Watt/m <sup>2</sup> |
| 22:53:56 2025-08-05 | 66641                 | lux    | 526,46                | Watt/m <sup>2</sup> |
| 22:53:57 2025-08-05 | 66688                 | lux    | 526,84                | Watt/m <sup>2</sup> |
| 22:53:58 2025-08-05 | 66807                 | lux    | 527,78                | Watt/m <sup>2</sup> |
| 22:53:59 2025-08-05 | 66688                 | lux    | 526,84                | Watt/m <sup>2</sup> |
| 22:54:00 2025-08-05 | 66688                 | lux    | 526,84                | Watt/m <sup>2</sup> |
| 22:54:01 2025-08-05 | 66664                 | lux    | 526,65                | Watt/m <sup>2</sup> |
| 22:54:02 2025-08-05 | 66664                 | lux    | 526,65                | Watt/m <sup>2</sup> |
| 22:54:03 2025-08-05 | 66855                 | lux    | 528,15                | Watt/m <sup>2</sup> |
| 22:54:04 2025-08-05 | 66855                 | lux    | 528,15                | Watt/m <sup>2</sup> |
| 22:54:05 2025-08-05 | 66641                 | lux    | 526,46                | Watt/m <sup>2</sup> |
| 22:54:06 2025-08-05 | 66641                 | lux    | 526,46                | Watt/m <sup>2</sup> |
| 22:54:07 2025-08-05 | 66688                 | lux    | 526,84                | Watt/m <sup>2</sup> |
| 22:54:08 2025-08-05 | 66879                 | lux    | 528,34                | Watt/m <sup>2</sup> |
| 22:54:09 2025-08-05 | 66760                 | lux    | 527,40                | Watt/m <sup>2</sup> |
| 22:54:10 2025-08-05 | 66664                 | lux    | 526,65                | Watt/m <sup>2</sup> |
| 22:54:11 2025-08-05 | 66736                 | lux    | 527,21                | Watt/m <sup>2</sup> |
| 22:54:12 2025-08-05 | 66736                 | lux    | 527,21                | Watt/m <sup>2</sup> |
| 22:54:13 2025-08-05 | 66903                 | lux    | 528,53                | Watt/m <sup>2</sup> |
| 22:54:14 2025-08-05 | 66903                 | lux    | 528,53                | Watt/m <sup>2</sup> |
| 22:54:15 2025-08-05 | 66736                 | lux    | 527,21                | Watt/m <sup>2</sup> |
| 22:54:16 2025-08-05 | 66760                 | lux    | 527,40                | Watt/m <sup>2</sup> |
| 22:54:17 2025-08-05 | 66736                 | lux    | 527,21                | Watt/m <sup>2</sup> |
| 22:54:18 2025-08-05 | 66903                 | lux    | 528,53                | Watt/m <sup>2</sup> |
| 22:54:19 2025-08-05 | 66688                 | lux    | 526,84                | Watt/m <sup>2</sup> |
| 22:54:20 2025-08-05 | 66688                 | lux    | 526,84                | Watt/m <sup>2</sup> |
| 22:54:21 2025-08-05 | 66688                 | lux    | 526,84                | Watt/m <sup>2</sup> |
| 22:54:22 2025-08-05 | 66736                 | lux    | 527,21                | Watt/m <sup>2</sup> |
| 22:54:23 2025-08-05 | 66783                 | lux    | 527,59                | Watt/m <sup>2</sup> |

|                     |       |     |        |                     |
|---------------------|-------|-----|--------|---------------------|
| 22:54:24 2025-08-05 | 66807 | lux | 527,78 | Watt/m <sup>2</sup> |
| 22:54:25 2025-08-05 | 66688 | lux | 526,84 | Watt/m <sup>2</sup> |
| 22:54:26 2025-08-05 | 66641 | lux | 526,46 | Watt/m <sup>2</sup> |
| 22:54:27 2025-08-05 | 66664 | lux | 526,65 | Watt/m <sup>2</sup> |
| 22:54:28 2025-08-05 | 66688 | lux | 526,84 | Watt/m <sup>2</sup> |
| 22:54:29 2025-08-05 | 66688 | lux | 526,84 | Watt/m <sup>2</sup> |
| 22:54:30 2025-08-05 | 66617 | lux | 526,27 | Watt/m <sup>2</sup> |
| 22:54:31 2025-08-05 | 66569 | lux | 525,90 | Watt/m <sup>2</sup> |
| 22:54:32 2025-08-05 | 66641 | lux | 526,46 | Watt/m <sup>2</sup> |
| 22:54:33 2025-08-05 | 66664 | lux | 526,65 | Watt/m <sup>2</sup> |
| 22:54:34 2025-08-05 | 66855 | lux | 528,15 | Watt/m <sup>2</sup> |
| 22:54:35 2025-08-05 | 66688 | lux | 526,84 | Watt/m <sup>2</sup> |
| 22:54:36 2025-08-05 | 66569 | lux | 525,90 | Watt/m <sup>2</sup> |
| 22:54:37 2025-08-05 | 66617 | lux | 526,27 | Watt/m <sup>2</sup> |
| 22:54:38 2025-08-05 | 66641 | lux | 526,46 | Watt/m <sup>2</sup> |
| 22:54:39 2025-08-05 | 66688 | lux | 526,84 | Watt/m <sup>2</sup> |
| 22:54:40 2025-08-05 | 66617 | lux | 526,27 | Watt/m <sup>2</sup> |
| 22:54:41 2025-08-05 | 66617 | lux | 526,27 | Watt/m <sup>2</sup> |
| 22:54:42 2025-08-05 | 66617 | lux | 526,27 | Watt/m <sup>2</sup> |
| 22:54:43 2025-08-05 | 66664 | lux | 526,65 | Watt/m <sup>2</sup> |
| 22:54:44 2025-08-05 | 66855 | lux | 528,15 | Watt/m <sup>2</sup> |
| 22:54:45 2025-08-05 | 66617 | lux | 526,27 | Watt/m <sup>2</sup> |
| 22:54:46 2025-08-05 | 66569 | lux | 525,90 | Watt/m <sup>2</sup> |
| 22:54:47 2025-08-05 | 66569 | lux | 525,90 | Watt/m <sup>2</sup> |
| 22:54:48 2025-08-05 | 66783 | lux | 527,59 | Watt/m <sup>2</sup> |
| 22:54:49 2025-08-05 | 66569 | lux | 525,90 | Watt/m <sup>2</sup> |
| 22:54:50 2025-08-05 | 66569 | lux | 525,90 | Watt/m <sup>2</sup> |
| 22:54:51 2025-08-05 | 66641 | lux | 526,46 | Watt/m <sup>2</sup> |
| 22:54:52 2025-08-05 | 66569 | lux | 525,90 | Watt/m <sup>2</sup> |
| 22:54:53 2025-08-05 | 66617 | lux | 526,27 | Watt/m <sup>2</sup> |
| 22:54:54 2025-08-05 | 66855 | lux | 528,15 | Watt/m <sup>2</sup> |
| 22:54:55 2025-08-05 | 66641 | lux | 526,46 | Watt/m <sup>2</sup> |
| 22:54:56 2025-08-05 | 66617 | lux | 526,27 | Watt/m <sup>2</sup> |
| 22:54:57 2025-08-05 | 66688 | lux | 526,84 | Watt/m <sup>2</sup> |
| 22:54:58 2025-08-05 | 66688 | lux | 526,84 | Watt/m <sup>2</sup> |
| 22:54:59 2025-08-05 | 66783 | lux | 527,59 | Watt/m <sup>2</sup> |

|                     |       |     |        |                     |
|---------------------|-------|-----|--------|---------------------|
| 22:55:00 2025-08-05 | 66736 | lux | 527,21 | Watt/m <sup>2</sup> |
| 22:55:01 2025-08-05 | 66760 | lux | 527,40 | Watt/m <sup>2</sup> |
| 22:55:02 2025-08-05 | 66760 | lux | 527,40 | Watt/m <sup>2</sup> |
| 22:55:03 2025-08-05 | 66736 | lux | 527,21 | Watt/m <sup>2</sup> |
| 22:55:04 2025-08-05 | 66974 | lux | 529,09 | Watt/m <sup>2</sup> |
| 22:55:05 2025-08-05 | 66760 | lux | 527,40 | Watt/m <sup>2</sup> |
| 22:55:06 2025-08-05 | 66760 | lux | 527,40 | Watt/m <sup>2</sup> |
| 22:55:07 2025-08-05 | 66783 | lux | 527,59 | Watt/m <sup>2</sup> |
| 22:55:08 2025-08-05 | 66807 | lux | 527,78 | Watt/m <sup>2</sup> |
| 22:55:09 2025-08-05 | 66974 | lux | 529,09 | Watt/m <sup>2</sup> |
| 22:55:10 2025-08-05 | 66855 | lux | 528,15 | Watt/m <sup>2</sup> |
| 22:55:11 2025-08-05 | 66879 | lux | 528,34 | Watt/m <sup>2</sup> |
| 22:55:12 2025-08-05 | 66879 | lux | 528,34 | Watt/m <sup>2</sup> |
| 22:55:13 2025-08-05 | 66903 | lux | 528,53 | Watt/m <sup>2</sup> |
| 22:55:14 2025-08-05 | 67069 | lux | 529,85 | Watt/m <sup>2</sup> |
| 22:55:15 2025-08-05 | 67022 | lux | 529,47 | Watt/m <sup>2</sup> |
| 22:55:16 2025-08-05 | 66879 | lux | 528,34 | Watt/m <sup>2</sup> |
| 22:55:17 2025-08-05 | 66855 | lux | 528,15 | Watt/m <sup>2</sup> |
| 22:55:18 2025-08-05 | 66903 | lux | 528,53 | Watt/m <sup>2</sup> |
| 22:55:19 2025-08-05 | 66998 | lux | 529,28 | Watt/m <sup>2</sup> |
| 22:55:20 2025-08-05 | 66855 | lux | 528,15 | Watt/m <sup>2</sup> |
| 22:55:21 2025-08-05 | 66807 | lux | 527,78 | Watt/m <sup>2</sup> |
| 22:55:22 2025-08-05 | 66807 | lux | 527,78 | Watt/m <sup>2</sup> |
| 22:55:23 2025-08-05 | 66855 | lux | 528,15 | Watt/m <sup>2</sup> |
| 22:55:24 2025-08-05 | 67069 | lux | 529,85 | Watt/m <sup>2</sup> |
| 22:55:25 2025-08-05 | 66998 | lux | 529,28 | Watt/m <sup>2</sup> |
| 22:55:26 2025-08-05 | 66855 | lux | 528,15 | Watt/m <sup>2</sup> |
| 22:55:27 2025-08-05 | 66879 | lux | 528,34 | Watt/m <sup>2</sup> |
| Rata - rata         | 66749 |     | 527,31 |                     |

### Pengukuran intensitas cahaya 125 Volt

| Tanggal             | Intensitas cahaya, Ir | satuan | Intensitas cahaya, Ir | satuan              |
|---------------------|-----------------------|--------|-----------------------|---------------------|
| 23:03:13 2025-08-05 | 63393                 | lux    | 500,81                | Watt/m <sup>2</sup> |
| 23:03:14 2025-08-05 | 63496                 | lux    | 501,62                | Watt/m <sup>2</sup> |
| 23:03:15 2025-08-05 | 63701                 | lux    | 503,23                | Watt/m <sup>2</sup> |
| 23:03:16 2025-08-05 | 63547                 | lux    | 502,02                | Watt/m <sup>2</sup> |
| 23:03:17 2025-08-05 | 63496                 | lux    | 501,62                | Watt/m <sup>2</sup> |
| 23:03:18 2025-08-05 | 63547                 | lux    | 502,02                | Watt/m <sup>2</sup> |
| 23:03:19 2025-08-05 | 63547                 | lux    | 502,02                | Watt/m <sup>2</sup> |
| 23:03:20 2025-08-05 | 63803                 | lux    | 504,04                | Watt/m <sup>2</sup> |
| 23:03:21 2025-08-05 | 63803                 | lux    | 504,04                | Watt/m <sup>2</sup> |
| 23:03:22 2025-08-05 | 63598                 | lux    | 502,43                | Watt/m <sup>2</sup> |
| 23:03:23 2025-08-05 | 63701                 | lux    | 503,23                | Watt/m <sup>2</sup> |
| 23:03:24 2025-08-05 | 63701                 | lux    | 503,23                | Watt/m <sup>2</sup> |
| 23:03:25 2025-08-05 | 63854                 | lux    | 504,45                | Watt/m <sup>2</sup> |
| 23:03:26 2025-08-05 | 63598                 | lux    | 502,43                | Watt/m <sup>2</sup> |
| 23:03:27 2025-08-05 | 63701                 | lux    | 503,23                | Watt/m <sup>2</sup> |
| 23:03:28 2025-08-05 | 63803                 | lux    | 504,04                | Watt/m <sup>2</sup> |
| 23:03:29 2025-08-05 | 63752                 | lux    | 503,64                | Watt/m <sup>2</sup> |
| 23:03:30 2025-08-05 | 63803                 | lux    | 504,04                | Watt/m <sup>2</sup> |
| 23:03:31 2025-08-05 | 63957                 | lux    | 505,26                | Watt/m <sup>2</sup> |
| 23:03:32 2025-08-05 | 63803                 | lux    | 504,04                | Watt/m <sup>2</sup> |
| 23:03:33 2025-08-05 | 63803                 | lux    | 504,04                | Watt/m <sup>2</sup> |
| 23:03:34 2025-08-05 | 63752                 | lux    | 503,64                | Watt/m <sup>2</sup> |
| 23:03:35 2025-08-05 | 63752                 | lux    | 503,64                | Watt/m <sup>2</sup> |
| 23:03:36 2025-08-05 | 63752                 | lux    | 503,64                | Watt/m <sup>2</sup> |
| 23:03:37 2025-08-05 | 63752                 | lux    | 503,64                | Watt/m <sup>2</sup> |
| 23:03:38 2025-08-05 | 63752                 | lux    | 503,64                | Watt/m <sup>2</sup> |
| 23:03:39 2025-08-05 | 63803                 | lux    | 504,04                | Watt/m <sup>2</sup> |
| 23:03:40 2025-08-05 | 63803                 | lux    | 504,04                | Watt/m <sup>2</sup> |
| 23:03:41 2025-08-05 | 64110                 | lux    | 506,47                | Watt/m <sup>2</sup> |
| 23:03:42 2025-08-05 | 63291                 | lux    | 500,00                | Watt/m <sup>2</sup> |
| 23:03:43 2025-08-05 | 63291                 | lux    | 500,00                | Watt/m <sup>2</sup> |
| 23:03:44 2025-08-05 | 63342                 | lux    | 500,40                | Watt/m <sup>2</sup> |
| 23:03:45 2025-08-05 | 63752                 | lux    | 503,64                | Watt/m <sup>2</sup> |
| 23:03:46 2025-08-05 | 63752                 | lux    | 503,64                | Watt/m <sup>2</sup> |

|                     |       |     |        |                     |
|---------------------|-------|-----|--------|---------------------|
| 23:03:47 2025-08-05 | 63701 | lux | 503,23 | Watt/m <sup>2</sup> |
| 23:03:48 2025-08-05 | 63701 | lux | 503,23 | Watt/m <sup>2</sup> |
| 23:03:49 2025-08-05 | 63701 | lux | 503,23 | Watt/m <sup>2</sup> |
| 23:03:50 2025-08-05 | 63803 | lux | 504,04 | Watt/m <sup>2</sup> |
| 23:03:51 2025-08-05 | 63957 | lux | 505,26 | Watt/m <sup>2</sup> |
| 23:03:52 2025-08-05 | 63701 | lux | 503,23 | Watt/m <sup>2</sup> |
| 23:03:53 2025-08-05 | 63752 | lux | 503,64 | Watt/m <sup>2</sup> |
| 23:03:54 2025-08-05 | 63701 | lux | 503,23 | Watt/m <sup>2</sup> |
| 23:03:55 2025-08-05 | 64315 | lux | 508,09 | Watt/m <sup>2</sup> |
| 23:03:56 2025-08-05 | 64213 | lux | 507,28 | Watt/m <sup>2</sup> |
| 23:03:57 2025-08-05 | 64110 | lux | 506,47 | Watt/m <sup>2</sup> |
| 23:03:58 2025-08-05 | 64110 | lux | 506,47 | Watt/m <sup>2</sup> |
| 23:03:59 2025-08-05 | 64264 | lux | 507,68 | Watt/m <sup>2</sup> |
| 23:04:00 2025-08-05 | 64264 | lux | 507,68 | Watt/m <sup>2</sup> |
| 23:04:01 2025-08-05 | 64520 | lux | 509,71 | Watt/m <sup>2</sup> |
| 23:04:02 2025-08-05 | 64264 | lux | 507,68 | Watt/m <sup>2</sup> |
| 23:04:03 2025-08-05 | 64213 | lux | 507,28 | Watt/m <sup>2</sup> |
| 23:04:04 2025-08-05 | 64264 | lux | 507,68 | Watt/m <sup>2</sup> |
| 23:04:05 2025-08-05 | 64315 | lux | 508,09 | Watt/m <sup>2</sup> |
| 23:04:06 2025-08-05 | 64315 | lux | 508,09 | Watt/m <sup>2</sup> |
| 23:04:07 2025-08-05 | 64315 | lux | 508,09 | Watt/m <sup>2</sup> |
| 23:04:08 2025-08-05 | 64264 | lux | 507,68 | Watt/m <sup>2</sup> |
| 23:04:09 2025-08-05 | 64264 | lux | 507,68 | Watt/m <sup>2</sup> |
| 23:04:10 2025-08-05 | 64264 | lux | 507,68 | Watt/m <sup>2</sup> |
| 23:04:11 2025-08-05 | 64469 | lux | 509,30 | Watt/m <sup>2</sup> |
| 23:04:12 2025-08-05 | 64264 | lux | 507,68 | Watt/m <sup>2</sup> |
| 23:04:13 2025-08-05 | 64264 | lux | 507,68 | Watt/m <sup>2</sup> |
| 23:04:14 2025-08-05 | 64110 | lux | 506,47 | Watt/m <sup>2</sup> |
| 23:04:15 2025-08-05 | 63957 | lux | 505,26 | Watt/m <sup>2</sup> |
| 23:04:16 2025-08-05 | 64110 | lux | 506,47 | Watt/m <sup>2</sup> |
| 23:04:17 2025-08-05 | 64264 | lux | 507,68 | Watt/m <sup>2</sup> |
| 23:04:18 2025-08-05 | 64315 | lux | 508,09 | Watt/m <sup>2</sup> |
| 23:04:19 2025-08-05 | 64315 | lux | 508,09 | Watt/m <sup>2</sup> |
| 23:04:20 2025-08-05 | 63854 | lux | 504,45 | Watt/m <sup>2</sup> |
| 23:04:21 2025-08-05 | 63854 | lux | 504,45 | Watt/m <sup>2</sup> |
| 23:04:22 2025-08-05 | 63752 | lux | 503,64 | Watt/m <sup>2</sup> |



|                     |       |     |        |                     |
|---------------------|-------|-----|--------|---------------------|
| 23:04:23 2025-08-05 | 63854 | lux | 504,45 | Watt/m <sup>2</sup> |
| 23:04:24 2025-08-05 | 63803 | lux | 504,04 | Watt/m <sup>2</sup> |
| 23:04:25 2025-08-05 | 63854 | lux | 504,45 | Watt/m <sup>2</sup> |
| 23:04:26 2025-08-05 | 63957 | lux | 505,26 | Watt/m <sup>2</sup> |
| 23:04:27 2025-08-05 | 63957 | lux | 505,26 | Watt/m <sup>2</sup> |
| 23:04:28 2025-08-05 | 63803 | lux | 504,04 | Watt/m <sup>2</sup> |
| 23:04:29 2025-08-05 | 63803 | lux | 504,04 | Watt/m <sup>2</sup> |
| 23:04:30 2025-08-05 | 63803 | lux | 504,04 | Watt/m <sup>2</sup> |
| 23:04:31 2025-08-05 | 63957 | lux | 505,26 | Watt/m <sup>2</sup> |
| 23:04:32 2025-08-05 | 63803 | lux | 504,04 | Watt/m <sup>2</sup> |
| 23:04:33 2025-08-05 | 63598 | lux | 502,43 | Watt/m <sup>2</sup> |
| 23:04:34 2025-08-05 | 63803 | lux | 504,04 | Watt/m <sup>2</sup> |
| 23:04:35 2025-08-05 | 63803 | lux | 504,04 | Watt/m <sup>2</sup> |
| 23:04:36 2025-08-05 | 64008 | lux | 505,66 | Watt/m <sup>2</sup> |
| 23:04:37 2025-08-05 | 63957 | lux | 505,26 | Watt/m <sup>2</sup> |
| 23:04:38 2025-08-05 | 63854 | lux | 504,45 | Watt/m <sup>2</sup> |
| 23:04:39 2025-08-05 | 63854 | lux | 504,45 | Watt/m <sup>2</sup> |
| 23:04:40 2025-08-05 | 63854 | lux | 504,45 | Watt/m <sup>2</sup> |
| 23:04:41 2025-08-05 | 64110 | lux | 506,47 | Watt/m <sup>2</sup> |
| 23:04:43 2025-08-05 | 63957 | lux | 505,26 | Watt/m <sup>2</sup> |
| 23:04:44 2025-08-05 | 63957 | lux | 505,26 | Watt/m <sup>2</sup> |
| 23:04:45 2025-08-05 | 64008 | lux | 505,66 | Watt/m <sup>2</sup> |
| 23:04:46 2025-08-05 | 64008 | lux | 505,66 | Watt/m <sup>2</sup> |
| 23:04:47 2025-08-05 | 64059 | lux | 506,07 | Watt/m <sup>2</sup> |
| 23:04:48 2025-08-05 | 63957 | lux | 505,26 | Watt/m <sup>2</sup> |
| 23:04:49 2025-08-05 | 64008 | lux | 505,66 | Watt/m <sup>2</sup> |
| 23:04:50 2025-08-05 | 63957 | lux | 505,26 | Watt/m <sup>2</sup> |
| 23:04:51 2025-08-05 | 63957 | lux | 505,26 | Watt/m <sup>2</sup> |
| Rata - rata         | 63902 |     | 504,83 |                     |

### Pengukuran intensitas cahaya 100 Volt

| Tanggal             | Intensitas cahaya, Ir | satuan | Intensitas cahaya, Ir | satuan              |
|---------------------|-----------------------|--------|-----------------------|---------------------|
| 23:08:43 2025-08-05 | 60212                 | lux    | 475,68                | Watt/m <sup>2</sup> |
| 23:08:44 2025-08-05 | 60200                 | lux    | 475,58                | Watt/m <sup>2</sup> |
| 23:08:45 2025-08-05 | 60389                 | lux    | 477,07                | Watt/m <sup>2</sup> |
| 23:08:46 2025-08-05 | 60363                 | lux    | 476,87                | Watt/m <sup>2</sup> |
| 23:08:47 2025-08-05 | 60288                 | lux    | 476,27                | Watt/m <sup>2</sup> |
| 23:08:48 2025-08-05 | 60603                 | lux    | 478,76                | Watt/m <sup>2</sup> |
| 23:08:49 2025-08-05 | 60930                 | lux    | 481,35                | Watt/m <sup>2</sup> |
| 23:08:50 2025-08-05 | 60144                 | lux    | 475,14                | Watt/m <sup>2</sup> |
| 23:08:51 2025-08-05 | 60056                 | lux    | 474,44                | Watt/m <sup>2</sup> |
| 23:08:52 2025-08-05 | 61094                 | lux    | 482,64                | Watt/m <sup>2</sup> |
| 23:08:53 2025-08-05 | 60081                 | lux    | 474,64                | Watt/m <sup>2</sup> |
| 23:08:54 2025-08-05 | 61207                 | lux    | 483,54                | Watt/m <sup>2</sup> |
| 23:08:55 2025-08-05 | 61320                 | lux    | 484,43                | Watt/m <sup>2</sup> |
| 23:08:56 2025-08-05 | 60471                 | lux    | 477,72                | Watt/m <sup>2</sup> |
| 23:08:57 2025-08-05 | 60257                 | lux    | 476,03                | Watt/m <sup>2</sup> |
| 23:08:58 2025-08-05 | 60270                 | lux    | 476,13                | Watt/m <sup>2</sup> |
| 23:08:59 2025-08-05 | 61371                 | lux    | 484,83                | Watt/m <sup>2</sup> |
| 23:09:00 2025-08-05 | 60534                 | lux    | 478,22                | Watt/m <sup>2</sup> |
| 23:09:01 2025-08-05 | 60484                 | lux    | 477,82                | Watt/m <sup>2</sup> |
| 23:09:02 2025-08-05 | 60421                 | lux    | 477,33                | Watt/m <sup>2</sup> |
| 23:09:03 2025-08-05 | 60434                 | lux    | 477,43                | Watt/m <sup>2</sup> |
| 23:09:04 2025-08-05 | 60459                 | lux    | 477,62                | Watt/m <sup>2</sup> |
| 23:09:05 2025-08-05 | 60635                 | lux    | 479,02                | Watt/m <sup>2</sup> |
| 23:09:06 2025-08-05 | 60635                 | lux    | 479,02                | Watt/m <sup>2</sup> |
| 23:09:07 2025-08-05 | 60497                 | lux    | 477,92                | Watt/m <sup>2</sup> |
| 23:09:08 2025-08-05 | 60534                 | lux    | 478,22                | Watt/m <sup>2</sup> |
| 23:09:09 2025-08-05 | 60534                 | lux    | 478,22                | Watt/m <sup>2</sup> |
| 23:09:10 2025-08-05 | 60748                 | lux    | 479,91                | Watt/m <sup>2</sup> |
| 23:09:11 2025-08-05 | 60610                 | lux    | 478,82                | Watt/m <sup>2</sup> |
| 23:09:12 2025-08-05 | 60585                 | lux    | 478,62                | Watt/m <sup>2</sup> |
| 23:09:13 2025-08-05 | 60648                 | lux    | 479,12                | Watt/m <sup>2</sup> |
| 23:09:14 2025-08-05 | 60660                 | lux    | 479,22                | Watt/m <sup>2</sup> |
| 23:09:15 2025-08-05 | 60811                 | lux    | 480,41                | Watt/m <sup>2</sup> |
| 23:09:16 2025-08-05 | 60962                 | lux    | 481,60                | Watt/m <sup>2</sup> |

|                     |       |     |        |                     |
|---------------------|-------|-----|--------|---------------------|
| 23:09:17 2025-08-05 | 60774 | lux | 480,11 | Watt/m <sup>2</sup> |
| 23:09:18 2025-08-05 | 60748 | lux | 479,91 | Watt/m <sup>2</sup> |
| 23:09:19 2025-08-05 | 60824 | lux | 480,51 | Watt/m <sup>2</sup> |
| 23:09:20 2025-08-05 | 60811 | lux | 480,41 | Watt/m <sup>2</sup> |
| 23:09:21 2025-08-05 | 60874 | lux | 480,91 | Watt/m <sup>2</sup> |
| 23:09:22 2025-08-05 | 60862 | lux | 480,81 | Watt/m <sup>2</sup> |
| 23:09:23 2025-08-05 | 60912 | lux | 481,21 | Watt/m <sup>2</sup> |
| 23:09:24 2025-08-05 | 61076 | lux | 482,50 | Watt/m <sup>2</sup> |
| 23:09:25 2025-08-05 | 61101 | lux | 482,70 | Watt/m <sup>2</sup> |
| 23:09:26 2025-08-05 | 61403 | lux | 485,08 | Watt/m <sup>2</sup> |
| 23:09:27 2025-08-05 | 61151 | lux | 483,10 | Watt/m <sup>2</sup> |
| 23:09:28 2025-08-05 | 62151 | lux | 491,00 | Watt/m <sup>2</sup> |
| 23:09:29 2025-08-05 | 61177 | lux | 483,29 | Watt/m <sup>2</sup> |
| 23:09:30 2025-08-05 | 61177 | lux | 483,29 | Watt/m <sup>2</sup> |
| 23:09:31 2025-08-05 | 61874 | lux | 488,81 | Watt/m <sup>2</sup> |
| 23:09:32 2025-08-05 | 61660 | lux | 487,12 | Watt/m <sup>2</sup> |
| 23:09:33 2025-08-05 | 61799 | lux | 488,21 | Watt/m <sup>2</sup> |
| 23:09:34 2025-08-05 | 61685 | lux | 487,31 | Watt/m <sup>2</sup> |
| 23:09:35 2025-08-05 | 61648 | lux | 487,02 | Watt/m <sup>2</sup> |
| 23:09:36 2025-08-05 | 61811 | lux | 488,31 | Watt/m <sup>2</sup> |
| 23:09:37 2025-08-05 | 61585 | lux | 486,52 | Watt/m <sup>2</sup> |
| 23:09:38 2025-08-05 | 61522 | lux | 486,02 | Watt/m <sup>2</sup> |
| 23:09:39 2025-08-05 | 61471 | lux | 485,62 | Watt/m <sup>2</sup> |
| 23:09:40 2025-08-05 | 61585 | lux | 486,52 | Watt/m <sup>2</sup> |
| 23:09:41 2025-08-05 | 61685 | lux | 487,31 | Watt/m <sup>2</sup> |
| 23:09:42 2025-08-05 | 61534 | lux | 486,12 | Watt/m <sup>2</sup> |
| 23:09:43 2025-08-05 | 61572 | lux | 486,42 | Watt/m <sup>2</sup> |
| 23:09:44 2025-08-05 | 61547 | lux | 486,22 | Watt/m <sup>2</sup> |
| 23:09:45 2025-08-05 | 61585 | lux | 486,52 | Watt/m <sup>2</sup> |
| 23:09:46 2025-08-05 | 61811 | lux | 488,31 | Watt/m <sup>2</sup> |
| 23:09:47 2025-08-05 | 61660 | lux | 487,12 | Watt/m <sup>2</sup> |
| 23:09:48 2025-08-05 | 61547 | lux | 486,22 | Watt/m <sup>2</sup> |
| 23:09:49 2025-08-05 | 61635 | lux | 486,92 | Watt/m <sup>2</sup> |
| 23:09:50 2025-08-05 | 61635 | lux | 486,92 | Watt/m <sup>2</sup> |
| 23:09:51 2025-08-05 | 61736 | lux | 487,71 | Watt/m <sup>2</sup> |
| 23:09:52 2025-08-05 | 61597 | lux | 486,62 | Watt/m <sup>2</sup> |

|                     |       |     |        |                     |
|---------------------|-------|-----|--------|---------------------|
| 23:09:53 2025-08-05 | 61547 | lux | 486,22 | Watt/m <sup>2</sup> |
| 23:09:54 2025-08-05 | 61585 | lux | 486,52 | Watt/m <sup>2</sup> |
| 23:09:55 2025-08-05 | 61572 | lux | 486,42 | Watt/m <sup>2</sup> |
| 23:09:56 2025-08-05 | 61874 | lux | 488,81 | Watt/m <sup>2</sup> |
| 23:09:57 2025-08-05 | 61685 | lux | 487,31 | Watt/m <sup>2</sup> |
| 23:09:58 2025-08-05 | 60597 | lux | 478,72 | Watt/m <sup>2</sup> |
| 23:09:59 2025-08-05 | 60660 | lux | 479,22 | Watt/m <sup>2</sup> |
| 23:10:00 2025-08-05 | 61660 | lux | 487,12 | Watt/m <sup>2</sup> |
| 23:10:01 2025-08-05 | 61849 | lux | 488,61 | Watt/m <sup>2</sup> |
| 23:10:02 2025-08-05 | 61660 | lux | 487,12 | Watt/m <sup>2</sup> |
| 23:10:03 2025-08-05 | 61635 | lux | 486,92 | Watt/m <sup>2</sup> |
| 23:10:04 2025-08-05 | 61585 | lux | 486,52 | Watt/m <sup>2</sup> |
| 23:10:05 2025-08-05 | 60660 | lux | 479,22 | Watt/m <sup>2</sup> |
| 23:10:06 2025-08-05 | 60714 | lux | 479,64 | Watt/m <sup>2</sup> |
| 23:10:07 2025-08-05 | 60824 | lux | 480,51 | Watt/m <sup>2</sup> |
| 23:10:08 2025-08-05 | 60660 | lux | 479,22 | Watt/m <sup>2</sup> |
| 23:10:09 2025-08-05 | 60648 | lux | 479,12 | Watt/m <sup>2</sup> |
| 23:10:10 2025-08-05 | 60060 | lux | 474,48 | Watt/m <sup>2</sup> |
| 23:10:11 2025-08-05 | 61931 | lux | 489,26 | Watt/m <sup>2</sup> |
| 23:10:12 2025-08-05 | 61045 | lux | 482,25 | Watt/m <sup>2</sup> |
| 23:10:13 2025-08-05 | 61045 | lux | 482,25 | Watt/m <sup>2</sup> |
| 23:10:14 2025-08-05 | 61055 | lux | 482,33 | Watt/m <sup>2</sup> |
| 23:10:15 2025-08-05 | 61025 | lux | 482,09 | Watt/m <sup>2</sup> |
| 23:10:16 2025-08-05 | 61025 | lux | 482,09 | Watt/m <sup>2</sup> |
| 23:10:17 2025-08-05 | 61025 | lux | 482,09 | Watt/m <sup>2</sup> |
| 23:10:18 2025-08-05 | 61063 | lux | 482,40 | Watt/m <sup>2</sup> |
| 23:10:19 2025-08-05 | 61023 | lux | 482,08 | Watt/m <sup>2</sup> |
| 23:10:20 2025-08-05 | 61013 | lux | 482,00 | Watt/m <sup>2</sup> |
| Rata - rata         | 61055 |     | 482,34 |                     |

### LAMPIRAN MATRIKS JURNAL RUJUKAN

| No | Author /Tahun             | Judul                                                                                                              | Tujuan                                                                                                                                                                                                 | Metode                                                                                                                                                                                                                                                                                            | Hasil                                                                                                                                                                                                                                                                                                                                                                                                     |
|----|---------------------------|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | (Faizin & Arnan di, 2018) | <i>Pengaru intensitas cahaya terhadap unjuk kerja solar cell tipe polychrist alline silicon kapasitas 10 Watt.</i> | Tujuan dari penelitian ini adalah untuk mengetahui pengaruh intensitas cahaya dan suhu permukaan panel terhadap keluaran daya dan efisiensi solar cell tipe polycrystalline silicon kapasitas 10 watt. | Metode penelitian ini menggunakan pengujian dengan sumber cahaya lampu halogen berdaya 300, 500, dan 1000 watt, yang disinarkan ke solar cell dalam ruangan tertutup selama 33 menit, dengan pengukuran arus, tegangan, suhu, dan efisiensi secara berulang setiap menit dan tiga menit kemudian. | Hasil penelitian menunjukkan bahwa daya keluaran solar cell berbanding lurus dengan intensitas cahaya, sedangkan efisiensinya berbanding terbalik dengan intensitas tersebut. Efisiensi tertinggi diperoleh saat daya lampu 300watt (6600 lux) sebesar 17,39%, dan menurun dengan peningkatan daya lampu dan intensitas cahaya tinggi sehingga efisiensi mencapai 10,23% saat daya 1000 watt (17800 lux). |
| 2  | (Kabana dkk., 2020)       | <i>Optimalisasi penerimaan intensitas cahaya matahari pada</i>                                                     | Tujuan penelitian ini adalah untuk mendapatkan keluaran panel surya yang optimal dengan                                                                                                                | Metode yang digunakan dalam penelitian ini adalah metode eksperimen, yaitu melakukan                                                                                                                                                                                                              | Hasil penelitian menunjukkan bahwa penggunaan reflektor cermin meningkatkan daya keluaran panel surya, dengan daya tertinggi mencapai                                                                                                                                                                                                                                                                     |

|   |                      |                                                                                                                                |                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                        |
|---|----------------------|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   |                      | <i>permukaan panel surya (solar cell) menggunakan cermin.</i>                                                                  | menggunakan cermin sebagai media reflektornya dan menentukan konfigurasi penempatan cermin yang dapat meningkatkan arus dan tegangan output panel surya                               | percobaan dengan menguji panel surya yang dilengkapi reflektor cermin pada sudut kemiringan 30°, 45°, dan 60°. Pengukuran dilakukan terhadap arus dan tegangan output panel surya pada berbagai waktu untuk mengevaluasi pengaruh penggunaan reflektor terhadap kinerja panel surya. | 19,36watt pada sudut 60° dan suhu 49°C. Penambahan reflektor juga menyebabkan peningkatan arus dan tegangan meskipun pengaruhnya kecil, dan efektivitas tertinggi tercapai saat menggunakan reflektor 60°, tetapi di akhir hari terjadi penurunan karena reflektor menghalangi Cahaya. |
| 3 | (Maulana dkk., 2024) | <i>Analisa Perbandingan Efisiensi Konversi Energi Antara PV (Photovoltaic) Monocrystalline 50 WP dan Polycrystalline 50 WP</i> | Tujuan dari penelitian ini adalah untuk menganalisa dan membandingkan efisiensi konversi energi antara dua jenis panel surya, yaitu <i>monocrystalline</i> dan <i>polycrystalline</i> | Metode penelitian yang digunakan adalah <i>true experimental research</i> , yaitu pengukuran langsung di lapangan dengan cara memberi beban lampu dan mengukur                                                                                                                       | Hasil penelitian menunjukkan bahwa panel surya <i>monocrystalline</i> 50 WP memiliki efisiensi yang lebih tinggi dibandingkan panel <i>polycrystalline</i> 50 WP. Pada kondisi dengan intensitas cahaya tinggi,                                                                        |

|  |  |                                                    |                                                                                        |                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                         |
|--|--|----------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  | <p>line 50 WP pada Berbagai Intensitas Cahaya.</p> | <p>ne dan polycrystalline 50 WP, pada berbagai tingkat intensitas cahaya matahari.</p> | <p>produksi energi dari panel surya monocrystalline dan polycrystalline secara bersamaan dari pukul 07.00 sampai 17.00 WIB.</p> <p>Pengumpulan data meliputi tegangan, arus, daya, intensitas cahaya, dan irradiansi, dengan langkah-langkah yaitu kalibrasi alat ukur, pengujian langsung, dan analisis data untuk membandingkan efisiensi kedua jenis panel surya.</p> | <p>panel <i>monocrystalline</i> mencapai efisiensi sekitar 8,2%, sedangkan <i>polycrystalline</i> sekitar 7,9%. Data pengukuran menunjukkan bahwa panel <i>monocrystalline</i> menghasilkan tegangan dan arus yang lebih besar, sehingga menyumbang pada efisiensi konversi energi yang lebih baik.</p> |
|--|--|----------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



Gambar L-. 1 Instalasi kerangka solar cell



Gambar L-. 2 Pemasangan solar cell tipe Monocrystalline





Gambar L-. 3 Pemasangan lampu hogen



Gambar L-. 4 Pemasangan cermin reflector



Gambar L-. 6 Pengambilan data Voc dan Isc



Gambar L-. 7 Pengambilan data intensitas cahaya



Gambar L-. 8 Instalasi solar cell 4 cermin reflektor tampak depan





Gambar L-. 9 Instalasi solar cell 4 cermin reflektor tampak belakang

