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再生能源實驗室

報告編號：DRT20230010

備註：

1. PV 系統頻率應與市電系統同步，在本標準第 5.2.2 節所定義之頻率失誤限制之內，其測試結果如附表 5.2.2。
2. 正常頻率-2 Hz 係為台電需求規範要求加測項目。

| 4.6. | 附表：諧波及波形失真 – GW60KA-SMT(380 V) | | | — |
|------|--------------------------------|-------|-------|--------|
| 相序 | L1 | L2 | L3 | 限制值(%) |
| THD | 1.550 | 1.452 | 1.506 | 5.0 |
| 2 | 0.758 | 0.654 | 0.834 | 1.0 |
| 3 | 0.104 | 0.183 | 0.209 | 4.0 |
| 4 | 0.244 | 0.246 | 0.315 | 1.0 |
| 5 | 0.727 | 0.696 | 0.614 | 4.0 |
| 6 | 0.038 | 0.046 | 0.063 | 1.0 |
| 7 | 0.632 | 0.592 | 0.585 | 4.0 |
| 8 | 0.072 | 0.077 | 0.078 | 1.0 |
| 9 | 0.022 | 0.035 | 0.033 | 4.0 |
| 10 | 0.026 | 0.029 | 0.016 | 1.0 |
| 11 | 0.266 | 0.264 | 0.254 | 2.0 |
| 12 | 0.025 | 0.014 | 0.018 | 0.5 |
| 13 | 0.304 | 0.297 | 0.278 | 2.0 |
| 14 | 0.059 | 0.030 | 0.042 | 0.5 |
| 15 | 0.015 | 0.014 | 0.025 | 2.0 |
| 16 | 0.039 | 0.042 | 0.028 | 0.5 |
| 17 | 0.259 | 0.282 | 0.248 | 1.5 |
| 18 | 0.013 | 0.019 | 0.016 | 0.375 |
| 19 | 0.330 | 0.307 | 0.287 | 1.5 |
| 20 | 0.034 | 0.025 | 0.040 | 0.375 |
| 21 | 0.017 | 0.020 | 0.020 | 1.5 |
| 22 | 0.034 | 0.030 | 0.027 | 0.375 |
| 23 | 0.281 | 0.299 | 0.279 | 0.6 |
| 24 | 0.018 | 0.019 | 0.022 | 0.15 |
| 25 | 0.276 | 0.269 | 0.253 | 0.6 |
| 26 | 0.027 | 0.016 | 0.026 | 0.15 |
| 27 | 0.017 | 0.015 | 0.019 | 0.6 |
| 28 | 0.028 | 0.036 | 0.028 | 0.15 |
| 29 | 0.089 | 0.093 | 0.083 | 0.6 |
| 30 | 0.022 | 0.021 | 0.022 | 0.15 |
| 31 | 0.393 | 0.350 | 0.357 | 0.6 |
| 32 | 0.029 | 0.022 | 0.029 | 0.15 |
| 33 | 0.026 | 0.032 | 0.025 | 0.6 |
| 34 | 0.021 | 0.028 | 0.030 | 0.15 |
| 35 | 0.258 | 0.209 | 0.236 | 0.3 |
| 36 | 0.013 | 0.012 | 0.013 | 0.075 |
| 37 | 0.063 | 0.057 | 0.058 | 0.3 |
| 38 | 0.022 | 0.012 | 0.016 | 0.075 |
| 39 | 0.021 | 0.020 | 0.010 | 0.3 |
| 40 | 0.025 | 0.028 | 0.030 | 0.075 |



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| 4.6. | 附表：諧波及波形失真 - GW50KA-SMT(380 V) | | | | — |
|------|--------------------------------|-------|--------|--------|---|
| 相序 | L1 | L2 | L3 | 限制值(%) | |
| THD | 2.482 | 1.853 | 1.902 | 5.0 | |
| 2 | 0.858 | 0.606 | 0.8585 | 1.0 | |
| 3 | 0.095 | 0.204 | 0.1310 | 4.0 | |
| 4 | 0.240 | 0.305 | 0.3575 | 1.0 | |
| 5 | 1.152 | 1.098 | 1.0565 | 4.0 | |
| 6 | 0.030 | 0.052 | 0.0555 | 1.0 | |
| 7 | 0.762 | 0.740 | 0.6999 | 4.0 | |
| 8 | 0.041 | 0.026 | 0.0397 | 1.0 | |
| 9 | 0.017 | 0.026 | 0.0261 | 4.0 | |
| 10 | 0.022 | 0.023 | 0.0306 | 1.0 | |
| 11 | 0.365 | 0.370 | 0.3514 | 2.0 | |
| 12 | 0.015 | 0.014 | 0.0192 | 0.5 | |
| 13 | 0.449 | 0.427 | 0.3945 | 2.0 | |
| 14 | 0.031 | 0.020 | 0.0424 | 0.5 | |
| 15 | 0.014 | 0.019 | 0.0312 | 2.0 | |
| 16 | 0.022 | 0.029 | 0.0212 | 0.5 | |
| 17 | 0.307 | 0.330 | 0.3063 | 1.5 | |
| 18 | 0.014 | 0.015 | 0.0150 | 0.375 | |
| 19 | 0.429 | 0.404 | 0.3760 | 1.5 | |
| 20 | 0.021 | 0.026 | 0.0351 | 0.375 | |
| 21 | 0.017 | 0.020 | 0.0248 | 1.5 | |
| 22 | 0.032 | 0.037 | 0.0394 | 0.375 | |
| 23 | 0.317 | 0.332 | 0.3173 | 0.6 | |
| 24 | 0.013 | 0.013 | 0.0152 | 0.15 | |
| 25 | 0.338 | 0.324 | 0.3034 | 0.6 | |
| 26 | 0.036 | 0.034 | 0.0512 | 0.15 | |
| 27 | 0.022 | 0.016 | 0.0194 | 0.6 | |
| 28 | 0.049 | 0.046 | 0.0562 | 0.15 | |
| 29 | 0.149 | 0.161 | 0.1606 | 0.6 | |
| 30 | 0.017 | 0.015 | 0.0155 | 0.15 | |
| 31 | 0.439 | 0.387 | 0.4007 | 0.6 | |
| 32 | 0.059 | 0.035 | 0.0596 | 0.15 | |
| 33 | 0.017 | 0.033 | 0.0340 | 0.6 | |
| 34 | 0.034 | 0.034 | 0.0414 | 0.15 | |
| 35 | 0.260 | 0.275 | 0.0145 | 0.3 | |
| 36 | 0.011 | 0.011 | 0.0142 | 0.075 | |
| 37 | 0.106 | 0.095 | 0.0944 | 0.3 | |
| 38 | 0.041 | 0.025 | 0.0338 | 0.075 | |
| 39 | 0.019 | 0.018 | 0.0109 | 0.3 | |
| 40 | 0.041 | 0.035 | 0.0406 | 0.075 | |