Table 1 — Power Flow Results of 6-Bus PV Case

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|  | **OpenDSS** | **GridLab-D** | **Simscape** |
| **Node-2** |  |  |  |
| V1 |  | 7102.9 / -0.29 |  |
| V2 |  | 7126.2 / -120.36 |  |
| V3 |  | 7111.8 / 119.57 |  |
| **Node-3** |  |  |  |
| V1 |  | 2229.3 / -33.96 |  |
| V2 |  | 2247.1 / -153.58 |  |
| V3 |  | 2241.4 / 86.15 |  |
| **Node-4** |  |  |  |
| V1 |  | 1860.6 / -39.72 |  |
| V2 |  | 2019.9 / -158.77 |  |
| V3 |  | 1936.3 / 80.34 |  |
| **Node-5** |  |  |  |
| V1 |  | 1850.0 / -39.78 |  |
| V2 |  | 2012.9 / -158.85 |  |
| V3 |  | 1927.2 / 80.26 |  |
| **Node-6** |  |  |  |
| V1 |  | 1835.0 / -40.09 |  |
| V2 |  | 2004.0 / -159.10 |  |
| V3 |  | 1915.0 / 79.97 |  |
| **Node-5-PV** |  |  |  |
| V1 |  | 216.1 / -38.49 |  |
| V2 |  | 234.7 / -157.75 |  |
| V3 |  | 224.9 / 81.45 |  |
| **Current 1-2** |  |  |  |
| Ia |  | 363.13 / -37.70 |  |
| Ib |  | 359.39 / -156.03 |  |
| Ic |  | 375.34 / 83.74 |  |
| **Current 3-4** |  |  |  |
| Ia |  | 1142.21 / -66.99 |  |
| Ib |  | 1051.38 / 173.98 |  |
| Ic |  | 1097.15 / 53.07 |  |
| **Current 4-5** |  |  |  |
| Ia |  | 72.71 / -88.62 |  |
| Ib |  | 66.19 / 152.31 |  |
| Ic |  | 69.49 / 31.40 |  |
| **Current 5-6** |  |  |  |
| Ia |  | 121.10 / -65.93 |  |
| Ib |  | 110.89 / 175.06 |  |
| Ic |  | 116.04 / 54.12 |  |
| **Current PV** |  |  |  |
| Ia |  | 527.46 / 141.51 |  |
| Ib |  | 485.66 / 22.25 |  |
| Ic |  | 506.79 / 261.45 |  |