MANSI UNIYAL

19EE10039

| Parameter | Load voltage (V)  Ideal case | Load voltage (V)  With source  inductance | Load voltage (V)  With source  inductance  and  freewheeling  diode |
| --- | --- | --- | --- |
| Firing angle  (Degree) | 30 | 30 | 30 |
| Average load  Voltage (V) | 183.9 | 183.8 | 183.8 |
| Average load  Current (A) | 8.32 | 8.316 | 8.31 |
| Input rms  current (A) | 9.98 | 9.94 | 9.948 |
| Fundamental  Input current | 13.86 | 13.84 | 13.84 |
| Distortion factor | 0.9998 | 0.99984 | 0.9998 |
| THD (%) | 19.59% | 18.07% | 18.15% |
| Dpf | 0.867 | 0.866 | 0.866 |
| Pf | 0.867 | 0.866 | 0.867 |
| P1 (W) | 2202.248 | 2202.25 | 2202.24 |
| Q1 | 997.6 | 998.87 | 1030.77 |
| S1 | 1971.43 | 1945.78 | 2002.85 |