**19EE10011**

**Atharva Nigoskar**

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| **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 | 8.316 |
| **Input rms current (A)** | 9.984 | 9.945 | 9.948 |
| **Fundamental input**  **Current**  **(A)** | 13.86 | 13.84 | 13.84 |
| **Distortion factor** | 0.9998 | 0.99983 | 0.99984 |
| **THD (%)** | 19.59% | 18.07% | 18.15% |
| **DPF** | 0.866 | 0.866 | 0.866 |
| **PF** | 0.866 | 0.866 | 0.866 |
| **P1 (W)** | 2202.2498 | 2202.2498 | 2202.2498 |