**Design Specifications for all the Converters:**

Considering,

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Elements  Converters | L1  (mH) | L2  (mH) | C1  (µF) | C2  (µF) | R  (Ω) |
| Boost | 12 | - | - | 2400 | 25 |
| Buck-Boost | 14.3 | - | - | 2900 | 25 |
| Cuk | 14.3 | 14.3 | 571.43 | 25 | 25 |
| SEPIC | 14.3 | 14.3 | 571.43 | 2900 | 25 |
| Zeta | 14.3 | 14.3 | 571.43 | 25 | 25 |
| Super-Lift Luo | 6.7 | - | 2700 | 2700 | 25 |
| Ultra-Lift Luo | 9.3 | 17.4 | 696.67 | 1900 | 25 |