**Flyback Transformer Design Details:**

**Transformer Design 1:**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Details | 100W, 12V out design. | | | | | | | | |
| S. No | Winding | Start Pin | End Pin | Current (A) | Wire Dia (AWG) | Voltage (V) | Turns (N) | Inductance (uH) | Tolerance |
| 1 | Primary | 1 | 3 | 3.019 | 24 | 48 | 6 | 4.56uH @100Khz across primary windings | ±5% |
| 2 | Aux | 5 | 6 | 1 | 26 | 12 | 2 |
| 3 | Sec | 7,8 | 11,12 | 8.33 | 21 | 12 | 2 |

**Transformer Design 2:**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Details | 100W, 24V out design. | | | | | | | | |
| S. No | Winding | Start Pin | End Pin | Current (A) | Wire Dia (AWG) | Voltage (V) | Turns (N) | Inductance (uH) | Tolerance |
| 1 | Primary | 1 | 3 | 3.019 | 24 | 48 | 8 | 20uH @100Khz across primary windings | ±5% |
| 2 | Aux | 5 | 6 | 1 | 26 | 12 | 2 |
| 3 | Sec | 7,8 | 11,12 | 4.16 | 23 | 24 | 4 |

**Transformer Design 3:**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Details | 48W, 12V out design. | | | | | | | | |
| S. No | Winding | Start Pin | End Pin | Current (A) | Wire Dia (AWG) | Voltage (V) | Turns (N) | Inductance (uH) | Tolerance |
| 1 | Primary | 1 | 3 | 1.44 | 26 | 48 | 6 | 9.1uH @100Khz across primary windings | ±5% |
| 2 | Aux | 5 | 6 | 1 | 26 | 12 | 2 |
| 3 | Sec | 7,8 | 11,12 | 4 | 23 | 12 | 2 |