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| --- | --- | --- | --- |
| **Sl. No.** | **Component** |  | **Quantity** |
| 1 | Arduino Uno Board with cable | Arduino Uno R3 with Cable | Robu.in | 01 |
| 2 | I2C LCD (Serial LCD) | i2c LCD Module for arduino | 01 |
| 3 | Potentiometer (1k ohm) and (10k ohm) | Potentiometer - Wikipedia | 02 each |
| 4 | Voltage sensor | https://www.electronicscomp.com/image/cache/catalog/voltage-detection-sensor-module-india-800x800.jpg | 01 |
| 6 | A3180 Optocoupler | https://cdn.shopify.com/s/files/1/0075/8726/6678/products/17760_468x539.jpg?v=1578983934 | 02 |
|  | 6N135  Optocoupler | https://cdn.shopify.com/s/files/1/0075/8726/6678/products/17760_468x539.jpg?v=1578983934 | 02 |
| 8 | MOSFET (IPW60R041C6) | IPW60R041C6, For Industrial, Empire Electronics | ID: 22483259130 | 02 |
| 9 | Power Diode (APT60DQ60BCT(G)) | APT60DQ60BCTG Microchip Technology | Discrete Semiconductor Products |  DigiKey | 02 |
| 13 | Resistors | 300 ohm/300 Watt | 01 |
| 100 ohm/5 Watt | 01 |
| 47K ohm/Half Watt | 10 |
| 1K ohm/Quarter Watt | 10 |
| 100 ohm/Half Watt | 10 |
| 200 ohm/Half Watt | 10 |
| 100 ohm/5 Watt | 02 |
| 10 ohm / Half watt | 05 |
| 1.2 kohm/Half watt | 05 |
| 1 kohm/Half watt | 05 |
| 10 kohm/Half watt | 05 |
| 14 | Inductor | 115 mH @2A, @20kHz  330uH 5.2A High Current Toroidal DIP Inductor | 01 |
| 15 | Capacitor | 470 Micro Farad / 100V (Electrolytic)  D:\Presidency_University\BE_Projects\2021_22\Power_Electronics\Buck Converter 0 - 325V\470uf-450v-1000x1000.jpg | 01 |
| 0.00416 Micro Farad / 400V (Electrolytic) | 01 |
| 22 Micro Farad/25V (Electrolytic) | 02 |
| 100 nano Farad (Ceramic) | 02 |
| * 1. Micro Farad (Ceramic)   https://www.electronicscomp.com/image/cache/catalog/0.1uF-104-Ceramic-Capacitor-800x800.jpg | 05 |
| * 1. micro Farad/400V (axial lead yellow color) | 01 |
| 16 | Connecting wires (Male to Male, Male to Female, Female to Female) | https://www.electronicscomp.com/image/cache/catalog/male-to-male-jumper-wires-40pcs-20cm-800x800.jpghttps://www.electronicscomp.com/image/cache/catalog/male-to-female-jumper-wires-40-pin-40cm-800x800.pnghttps://robu.in/wp-content/uploads/2017/09/TE462-E-10-4.jpg |  |
| 18 | Bread Boards | https://www.electronicscomp.com/image/cache/catalog/gl-12-bread-board-800x800.jpg | 01 |
| 19 | Tag Board |  | 01 |
| 20 | 7805 IC |  | 02 |