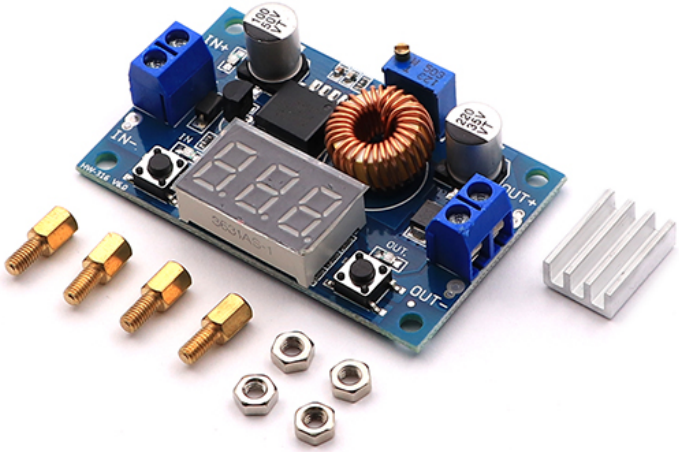
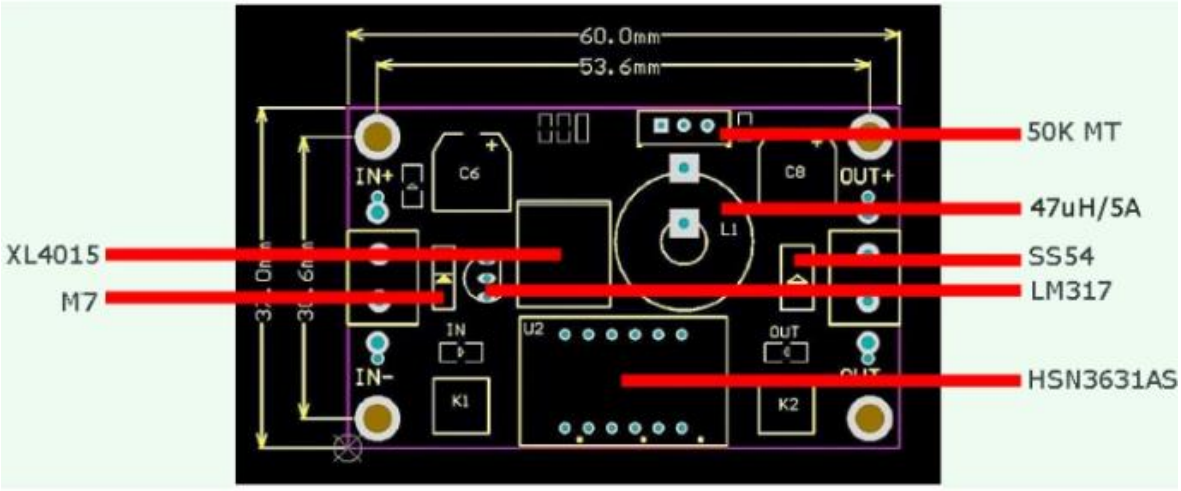
DC-DC Converter Adjustable Step-Down Module 5A 75W with Digital Display

Model: XL4015

User Manual

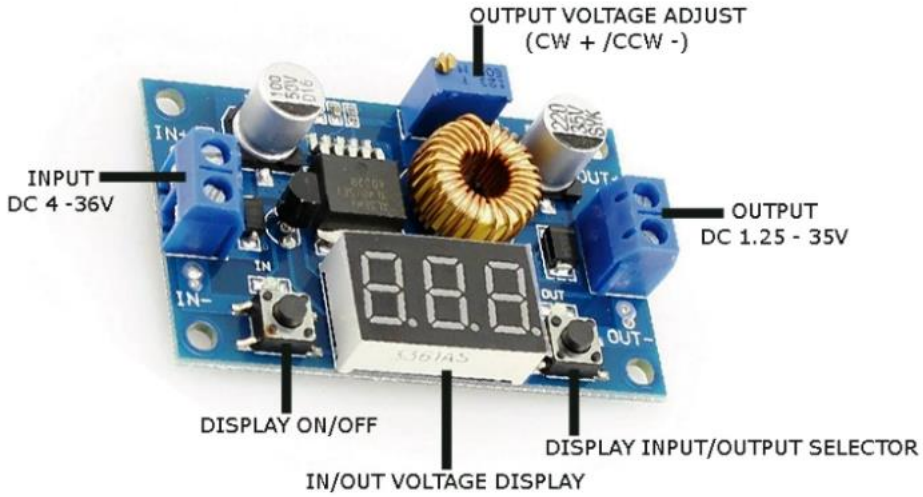


Module Components:



- **XL4015:** DC/ DC 180-KHz Buck Converter, 5 A/36 V
- **M7:** SMD version of 1N400x Diode (used here for circuit protection)
- **HSN3631AS:** Numeric Three-Digit LED Display, Red
- **LM317:** Adjustable Voltage Regulator (used here as the dvm power supply)
- **SS54:** Schottky Diode 40 V/5 A
- **47 uH/5 A:** Power Inductor
- **50K MT:** Multi-Turn Preset Potentiometer 50K

Step Up Guide:



- Power up the module with a stable and accurate DC power supply (such as a regulated 6-V power supply). Then short-press the button on the right side to select which one you need to adjust (input or output). Long-pressing the button on the right side (holding it for >2 s) makes the module enter calibration mode. After releasing the button, the related LED will blink to indicate which voltage is now calibrating, and the numeric display will blink with the present value.
- Short-press the button to change the present value. For example, if your power supply is 6 V but the result of voltage meter is 5.8 V, you need to set the value to 6 V.
- Short-press the button on the right side to increase the voltage by one unit. Short-press the button on the left side to reduce the voltage by one unit.
- Long-press button on the right side to store the redressed value.
- The preset pot sets the actual output voltage. Calibrate the output voltage reading on the digital voltmeter in the same way above. For example, if your actual output is 3 V but the result on the voltmeter is 4 V, you need to set the value to 3 V. The redressed value will be stored in the non-volatile memory of the module.

Remember, if you are facing difficulties in the calibration process for the first time, just turn the preset pot counterclockwise for 10 rotations as the default output voltage (factory preset) is around 20 V. Also attach the heatsink that comes with the module.