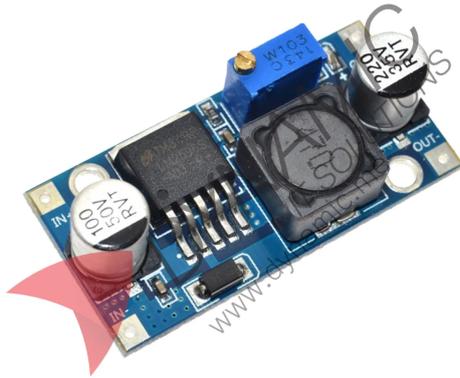


DC-DC Step Down Module LM2596



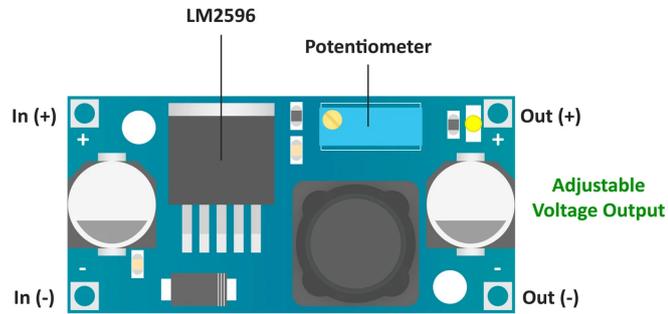
Features:

The LM2596 step-down converter module provides efficient voltage regulation for DC applications, supporting adjustable output from 1.23 V to 35 V. Designed for battery-powered and embedded systems, it delivers up to 2A continuous current (3A with heatsink) while maintaining up to 92% efficiency at higher output voltages. With integrated short-circuit protection, low dropout operation, and a compact PCB, it's ideal for projects needing a stable power supply from a wide input range.

Specifications	
Regulator Type	Step-Down (Buck), Non-Isolated
Input Voltage	4 V to 40 V DC
Output Voltage	1.23 V to 35 V DC (adjustable)
Output Current	2A (rated), up to 3A with heatsink
Efficiency	Up to 92%
Switching Frequency	150 kHz
Dropout Voltage	Minimum 2 V
Load Regulation	±0.5%
Voltage Regulation	±2.5%
Protection	Short-circuit current limiting
Operating Temperature	-40 °C to +85 °C (output < 10W)
Dimensions	43.6 mm × 21 mm × 14 mm (L×W×H)

Pinouts:

Pin Name	Type	Description
IN+	Power Input	Positive input voltage (regulated or unregulated)
IN-	Power Ground	Negative input / ground
OUT+	Power Output	Positive regulated output
OUT-	Power Ground	Negative output / ground



Product Pictures:

