

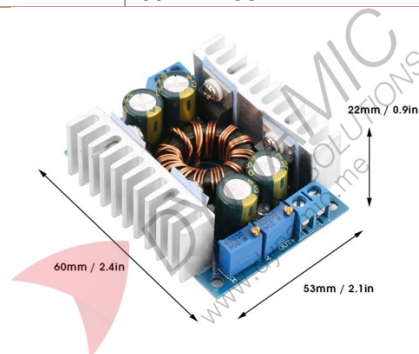
DC-DC Step Up Step Down Buck Boost Converter Module 8A



Features:

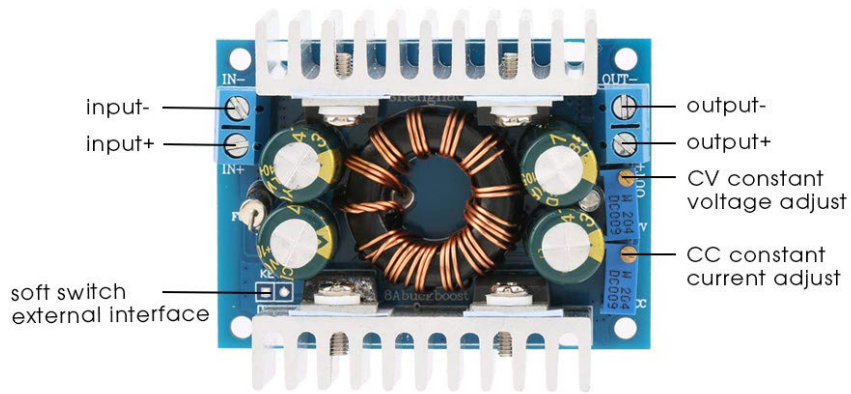
The DC-DC buck-boost converter module offers seamless voltage regulation with high current output. It supports wide input voltage from 5V to 30V and delivers adjustable output from 1.25V to 30V at up to 10A. Built for demanding applications like battery charging, LED drivers, or fluctuating sources like solar panels, this module features soft-start, constant voltage (CV) and constant current (CC) modes, and protection against overcurrent, overheating, and short circuits.

Specifications	
Input Voltage	DC 5-30V
Input Current	Max 8A, Peak 10A
Quiescent Current	4mA
Output Voltage	1.25V to 30V (adjustable)
Output Current	Max 10A (5A with passive cooling)
Output Current Range	0.2A to 10A
Operating Temperature	-40°C to +85°C
Operating Frequency	150KHz
Conversion Efficiency	Typical 91%, Max 93%
Overcurrent Protection	Yes
Short Circuit Protection	Yes (current limiting)
Overtemperature Protection	Yes (auto output voltage reduction)
Input Reverse Polarity Protection	None (diode recommended)
Output Reverse Protection	Yes
Connection Type	Terminal (IN is input, OUT is output)
Module Dimensions	60mm x 53mm x 22mm



Pinouts:

Pin Name	Type	Description
IN+	Power Input	Positive voltage input (DC 5-30V)
IN-	Power Input	Negative voltage input (GND)
OUT+	Power Output	Positive adjustable output (1.25V-30V)
OUT-	Power Output	Negative output terminal
CV Adjust	Control	Voltage adjustment potentiometer
CC Adjust	Control	Current adjustment potentiometer



Product Pictures:

