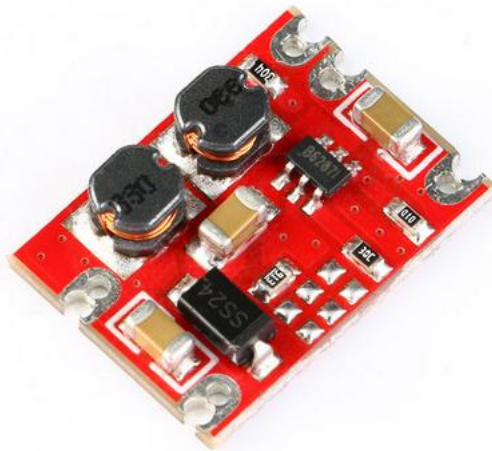




User Guide

12V~0.6A Auto Buck-Boost DC-DC Converter

This small form factor auto step-up/step-down DC-DC converter can deliver up to 0.6A with efficiency of greater than 75%. This type of DC/DC converter allowing the electrical output potential (voltage) at its output to be greater than, less than, or equal to that at its input voltage. Ideal for USB power bank or battery operated projects requiring a higher or lower regulated output power supply. The applications include LED drivers, Solar battery chargers, robotic car and regulated variable power supply. This converter operated in buck-boost topology, i.e. step down or step-up converter in same board.

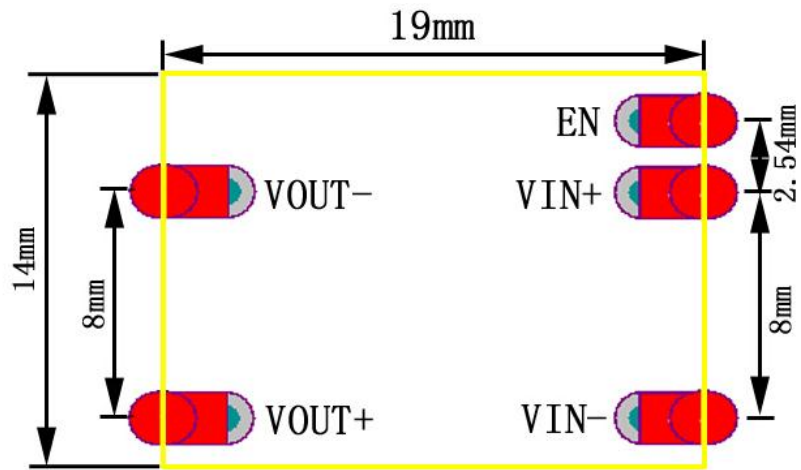


SKU: [PSU-1014](#)

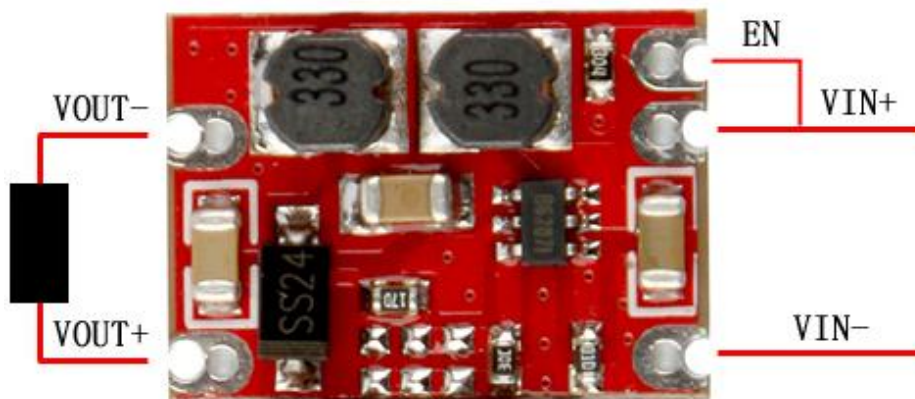
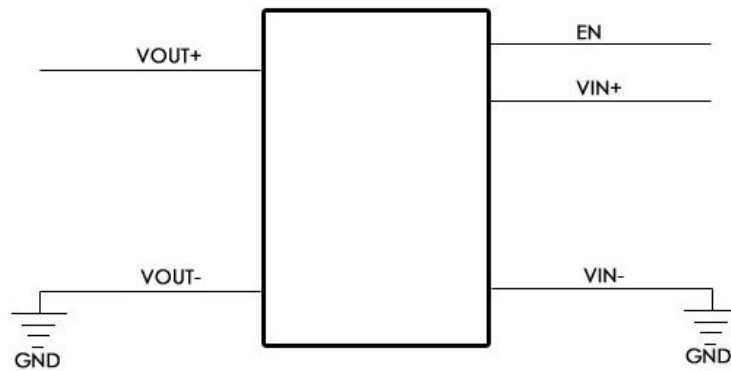
Brief Specification:

- Input voltage: 3Vdc ~ 15Vdc.
- Output Voltage: 12V.
- Output Current: 0.6A.
- No-load Current: 200uA typical.
- Conversion efficiency: 75%.
- Ripple and Noise: <50mVp-p.
- Small Form Factor for space critical application.
- Size LxWxH: (19x14x4) mm.

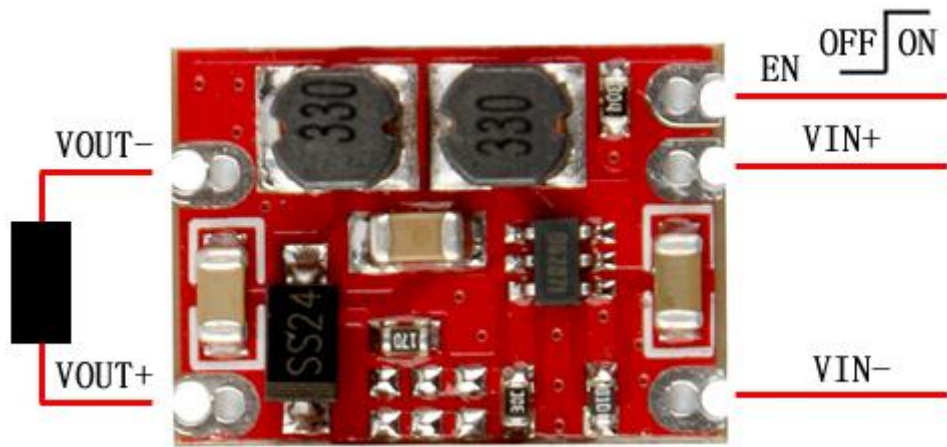
Mechanical Dimension:



Schematics:



'En' pin connected to Vin+: Output Enable



External Control for Output On-Off with Logic Level 2V~15V

Electrical Characteristics:

Paramater Name	Paramater Detail
Chip	Original
Input Voltage	3V~15V
Output Voltage	3.3V
Output Current	0.6A
Conversion efficiency	75%
Output Ripple	<50mV
Output Accuracy	+0.1V
Working Temperature	-20~85 Celsius
Relative Humidity	20-90%
Size	19*14*4mm(L*W*H)
PCB thickness	1.2mm
PCB Layers	2 layers
Current Control	With Cut Off
Cooling Method	Cooling Nature
Installation Method	SMD or 2.54mm Pin
Production Process	Reflow
Isolated	No
Design aging standards	720 hours without trouble
Production factory aging standards	48 hours
Service life	35000 hours without trouble
Factory inspection standards 3 times	All (Factory/Aging/out of library Test
Fixed switching frequency	1200KHz



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