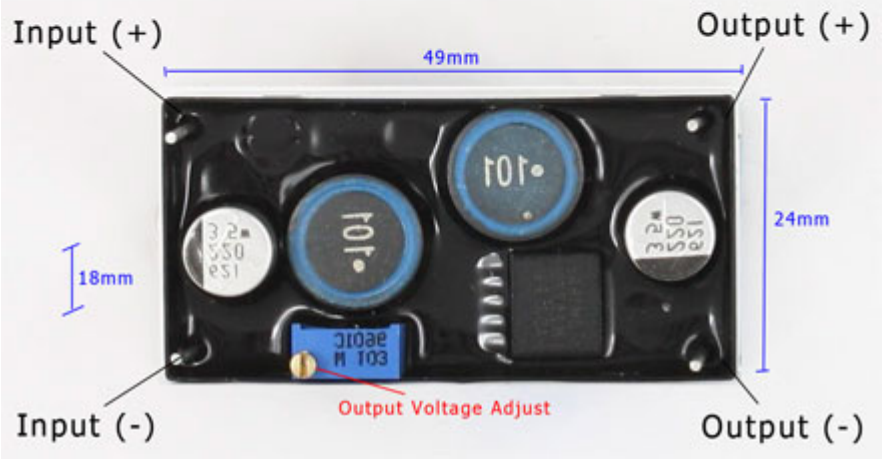

14.95 EUR
incl. 19% VAT, plus shipping

DC to DC Auto Boost Buck Converter, input voltage 3-35V, output voltage 1.25-30V, Output current 1A, max input current 2A voltage regulator, applicable eg. for solar regulator circuit.

Feature:

- Module Properties: non-isolated buck-boost module
- Input voltage :3-35V
- Output voltage: 1.25-30V (adjustable)
- Output Current: 1A (when 9-35V input and 12V output, if 5V output can achieve 1.5-2A)
- Input Current: 2A (MAX)
- Output power: natural cooling 12W (input voltage greater than 10V), if install heat sink can achieve 20W
- Output ripple: 20M bandwidth (for reference)
- Input 10-14V, output 12V 0.2A, ripple 50mV
- Operating Temperature: Industrial (-40°c to +85°c) (if ambient temperature exceeds 40 degrees, lower power use, or to enhance heat dissipation)
- Full load temperature rise: 45°c
- No-load current: Typical 10mA (10-14V switch 12V)
- Load regulation: ± 1%
- Voltage regulation: ± 0.5%
- Dynamic response speed: 5% 200uS
- Short circuit protection: Yes (10 seconds)
- Input Reverse Polarity Protection: None (Please Series diode at the input port.)

- Case Color: Silver or Black, will be sent random

The following are not considered heat dissipation, output current limit (current small to large test), when used Please left margin.

- Input 12V Output 4.2V maximum output current 0.4A
- Input 12V Output 5.0V maximum output current 0.5A
- Input 8.2V output 12V maximum current output 1A
- Input 10V Output 12V maximum output current 1.2A
- Input 12V Output 12V maximum output current 1.3A
- Input 14V Output 12V maximum output current 1.5A
- Input 24V Output 12V maximum output current 1.7A
- Input 30V Output 12V maximum output current 1.8A

Conversion efficiency:

- Input3.7V Output5V 0.5A efficiency 75%
- Input5V Output5V 0.5A efficiency 78%
- Input7.4V Output5V 0.5A efficiency 80%
- Input12V Output5V 0.9A efficiency 80%
- Input30V Output5V 0.5A efficiency 80%
- Input30V Output5V 2A efficiency 76%
- Input10V Output12V 1A efficiency 81%
- Input14V Output12V 1A efficiency 83%
- Input24V Output12V 1A efficiency 83%
- Input24V Output12V 2A efficiency 84%

Applications:

- Battery voltage regulator, 12V battery (10-14V) can output voltage at 12V, 24V battery output voltage at 24V.
- Solar charging regulator, it can stabilize voltage fluctuations in solar cells, and can give the battery charge, battery to avoid overshoot.
- In order to power your electronic devices, designed for wide voltage range.

Package Includes:

- 1x DC-DC Converter