

DC-DC Buck-Mode Power Module (8~28V to 5V 3A)

SKU:DFR0571

INTRODUCTION

This is a DC-DC buck-mode power module, with input voltage range 8V~28V and fixed output voltage/current 5V/3A. Its work frequency can reach to 0.5MHz. The module has high conversion rate and small size, easy to embed.

Besides, it has steady output voltage, which can work long time without voltage shift and is suitable for the occasions with high requirements. This product can work with some high-capacity and high-voltage batteries to DIY some mobile power. It can also be embedded into your project to provide multiple power options.

FEATURES

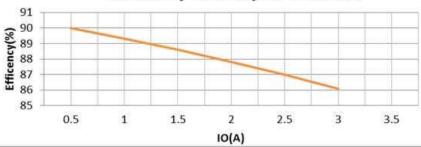
• Small size, stable performance, wide voltage range for a variety of DIY applications

APPLICATIONS

Power supply for controller main-board, DIY current source, floodlight, DIY toy car, communication device, digital radio

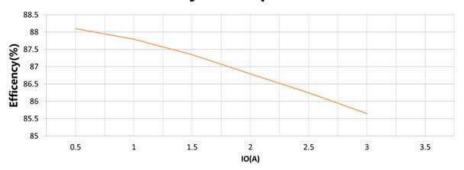
(VIN=8V VO=3.3V FS=0.5MHz)

Efficency vs Output Current



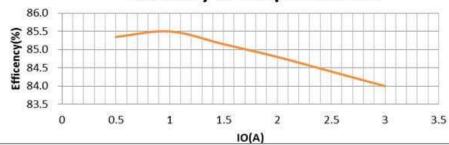
(VIN=12V VO=3.3V FS=0.5MHz)

Efficency vs Output Current



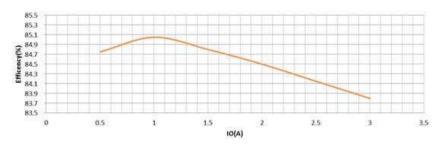
(VIN=24V VO=3.3V FS=0.5MHz)

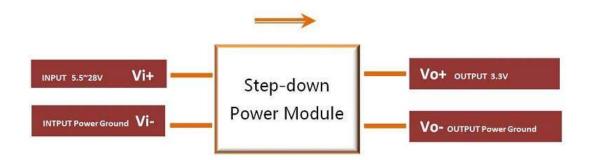
Efficency vs Output Current



(VIN=28V VO=3.3V FS=0.5MHz)

Efficency vs Output Current





SPECIFICATION

Input Voltage: 8~28Vdc
Output Voltage: 5V
Output Accuracy: ±0.1V

The Maximum Output Peak Current: 3AFull-Load Output Ripple: Vpp<50mV

No-Load Current: IQ 0.5mA

Switch-Off Function: Not Support

Operating Temperature: -20°C ~ +85°C

• Operating Humidity: 20% ~ 90% relative humidity, no condensation

Storage Temperature: -40°C ~ +125°C
Installation Method: Chip-mounting

With or Without Isolation: Without Isolation

Service Life: 30000h

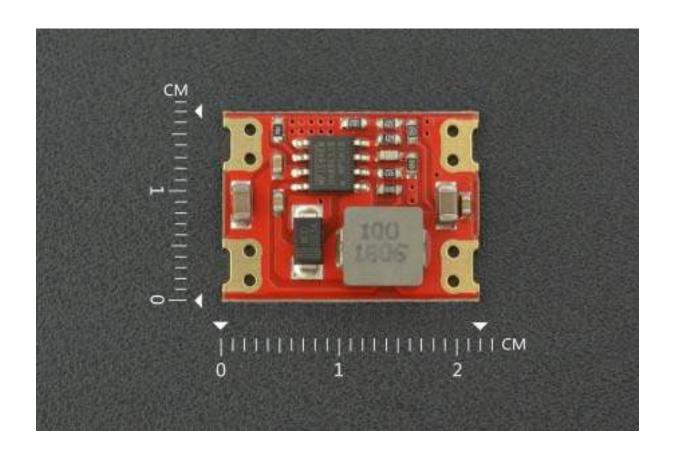
Dimension: 16.5×22mm/0.65×0.87inch

NOTE

- 1. The input voltage must within 28V.
- 2. Load current should not be in 3A or above for a long time, otherwise it will affect the service life of the module and even burn out.
- 3. If the load current is relatively high, you should increase the minimum input voltage to ensure normal operation.

SHIPPING LIST

DC-DC Buck-Mode Power Module (8~28V to 5V 3A) x1





https://www.dfrobot.com/product-1768.html 8-7-18