

DFR0339 Bluno Beetle

Controller

DFR0343 UHex Low-power

SKU:DFR1025

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COMMUNITY NEW

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Board Overview

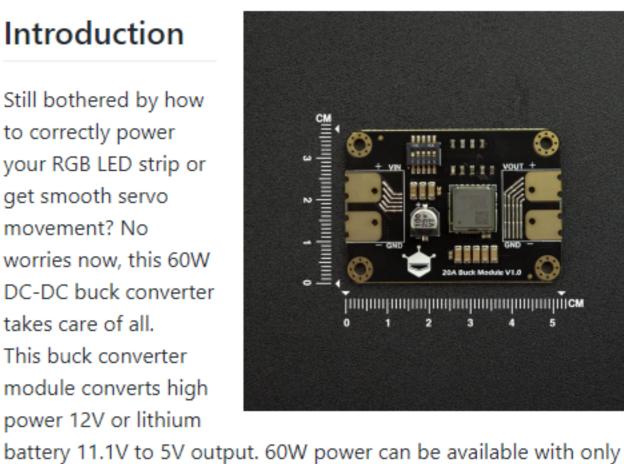
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Introduction

Still bothered by how to correctly power your RGB LED strip or get smooth servo movement? No worries now, this 60W DC-DC buck converter takes care of all. This buck converter

module converts high power 12V or lithium



EDUCATION

5m WS2812 RGB LED strip or other device requiring low voltage and high current. In addition, the converter incorporate protective functions like short-circuit, overload, overheat, etc., to ensure stable performance.

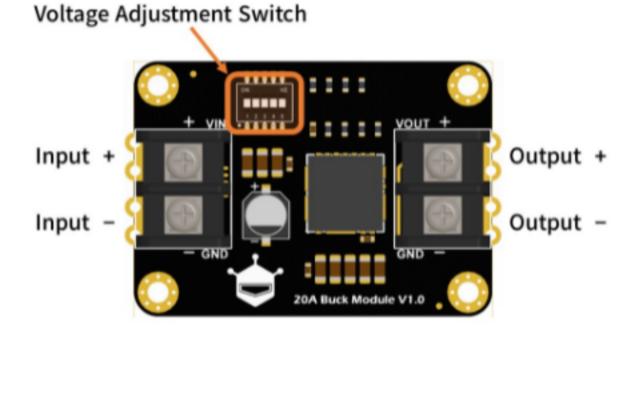
one such module! Featuring adjustable 0.6V-5.1V output voltage

and up to 18A output current, the module can be used to drive a

Specification

Input Voltage: 9V-15V

- Output Voltage: 0.6V-5.1V Output Current: 18A(Active dissipation)
- Output Power: 60W(Active Dissipation)
- Conversion Efficiency: 92%(Typical)
- Outline Dimension: 52×37mm/2.05×1.46"
- **Board Overview**



Safe Operating Range

Instruction



NAE12S20 Safe Operating Range

• Surface temperature < 80°C: the converter performs steadily • Surface temperature in 80 - 90°C: dissipation improvement recommended

surface temperature of the buck converter to determine if the

- Surface temperature >90°C: dissipation improvement is required since the overheat protection may be triggered at any
- time.
- Voltage Settings Voltage Settings via DIP switch.

Output Voltage

dissipation needs to be improved.

•	~	3	7	,	Output voltage
ON					0.6V
ON				ON	0.9V
ON			ON		1.2V
ON			ON	ON	1.5V
ON		ON			1.8V
		ON		ON	2.1V
		ON	ON		2.4V
		ON	ON	ON	2.7V
	ON				3.0V
	ON			ON	3.3V
	ON		ON		3.6V
	ON		ON	ON	3.9V
	ON	ON			4.2V
	ON	ON		ON	4.5V
	ON	ON	ON		4.8V
	ON	ON	ON	ON	5.1V
	ease dis	connec	t the po	ower firs	st when adjusting vo

2. There may be ±10% error in voltage, so it is recommended to use a multimeter to test and then select a suitable output voltage.

FAQ

For any questions, advice or cool ideas to share, please visit the DFRobot Forum.

More Documents

DFR1025 Dimensional Drawings

Get DC-DC Buck Converter 60W from DFRobot Store or DFRobot Distributor.

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