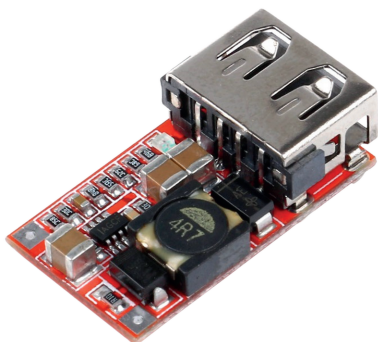


DCDC-RED12-0.7A

12W step down module



This is a high-performance switching buck module with 2A current.

The module is the second generation of high-frequency switching technology and it have a fixed output USB.

Specifications

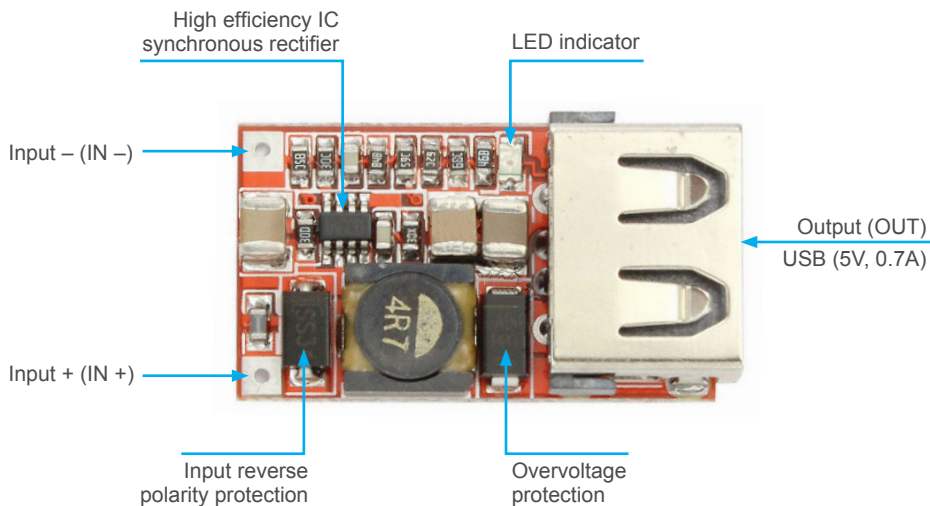
Item	Value	Remarks
Description	Step-down (buck)	
Power	12W	Input max.
Input range	6.5V ~ 24V	
Output range	5V	Fixed output
Output current	0 ~ 0.7A	For outputs less than 5V, up to 2.1A
Working temperature	-40°C ~ +85°C	The higher the ambient temperature, the lower the power output
Conversion efficiency	<85%	
Dimensions	26.5 x 1.5 x 4.5 mm	
Weight	3.14g	
Connection mode	Welding	
IP	IP20	
Shortcircuit protection	Yes	
Input reverse polarity protection	Yes	Input diode
Overvoltage protection	Yes	1.5A fuse. Output 5V with TVS 300W protection
No load current	0.85mA	
Input current (peak)	3A	
Switching Frequency	500KHz	
Output ripple	10mV	(12 V a 5V3A) 20 M Bandwidth. The higher the voltage or the current, the greater the ripple.
Load regulation	±1%	
Voltage regulation	±0.5%	
Full load temperature rise	30°C	
Dynamic response speed	200uS	

DCDC-RED12-0.7A
12W step down module

Operation

Input		Output		P(in)	P(out)	Efficiency
V (V)	I (Ah)	V (V)	I (Ah)	W	W	%
24.00	0.17	4.95	0.70	4.15	3.46	83%
12.00	0.34	4.94	0.70	4.06	3.46	85%
5.98	0.20	4.91	0.20	1.20	0.98	82%
6.48	0.64	4.94	0.70	4.15	3.46	83%
24.02	0.48	4.58	2.00	11.46	9.16	80%
12.00	0.99	4.59	2.00	11.86	9.17	77%
6.49	0.94	4.87	1.00	6.12	4.87	80%

Use mode



- Do not exceed the input power limits.
- Do not exceed the current output limits.
- Do not short-circuit the input and output connections.
- Do not reverse polarity of the input and output connections.

Warning!

To prevent fire shock hazard do not expose this appliance to rain or moisture.

Always place the converter in an environment which is:

- Well ventilated.
- Not exposed to direct sunlight or heat source.
- Out of reach from children.
- Away from water/moisture, oil or grease.
- Away from any flammable substance.
- Secure and no risk of falling.