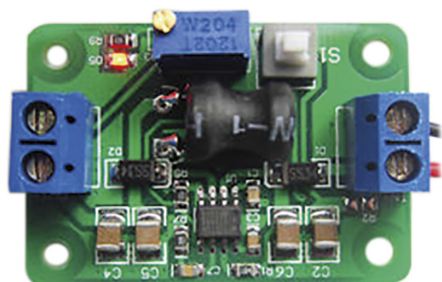


DCDC-RED30-2.5A

30W step down module



This is a high-performance switching buck module with 2.5A current.

The module is the second generation of high-frequency switching technology and uses MP2307 core chip.

Specifications

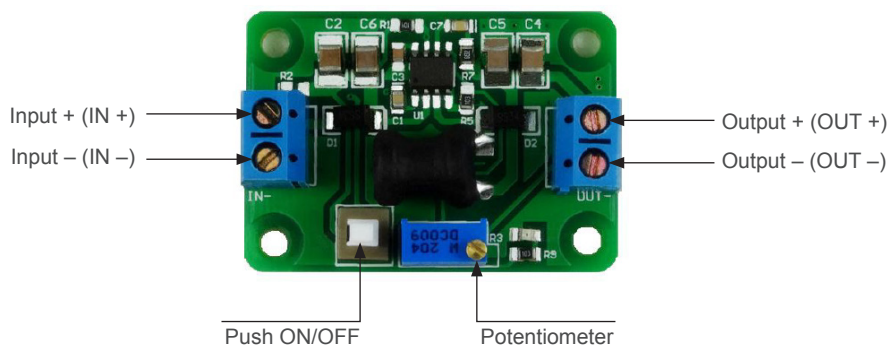
Item	Value	Remarks
Description	Step-down (buck)	
Power	30W	Input max.
Input range	5V ~ 24V	
Output range	0.87V ~18V	Output voltage must be at least 2V higher than input voltage
Output current	0 ~ 2.5A	
Working temperature	-40°C ~ +85°C	If working temperature is higher than 40°C working power should be reduced or heat dissipation should be improved
Conversion efficiency	<91%	The smaller the difference between the input and output voltage, the higher the efficiency
Dimensions	45 x 32 x 16 mm	
Weight	11.45g	
Connection mode	Terminals	
IP	IP20	
Shortcircuit protection	Yes	Over current protection cycle per cycle.
No load current	15mA	The higher the output voltage, and/or the higher the difference between input voltage and output voltage, the higher the no load current
Input current (peak)	4A	Max. With heatsink
Output ripple	20M bandwidth	
Switching Frequency	330KHz	
Ripple peak value	5mv	

DCDC-RED30-2.5A
30W step down module

Operation

Input		Output		P(in)	P(out)	Efficiency
V (V)	I (Ah)	V (V)	I (Ah)	W	W	%
24.00	1.64	18.00	2.00	39.36	36.00	0.91
24.00	1.24	12.05	2.20	29.76	25.51	0.89
24.00	0.65	5.00	2.50	15.60	12.50	0.80
24.00	0.45	3.30	2.50	10.75	8.25	0.77
12.00	1.28	5.00	2.50	15.32	12.50	0.82
12.00	0.87	3.30	2.50	10.46	8.25	0.79
5.00	0.81	3.30	1.00	4.04	3.30	0.82

Use mode



- First, turn the potentiometer counterclockwise to lower the output voltage. Then connect the source.
- Do not exceed the input power limits.
- Do not exceed the current output limits.
- Do not short-circuit the input and output connections.
- Set output voltage before connecting load.
- Cut power supply with push ON/OFF
- 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.