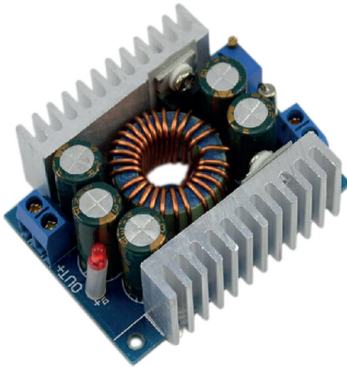

DCDC-RED100-7.5A
100W step down modules



This is a high-performance switching buck module with 7.5A current.

The module is the second generation of high-frequency switching technology and uses XL4016ET core chip.

Specifications

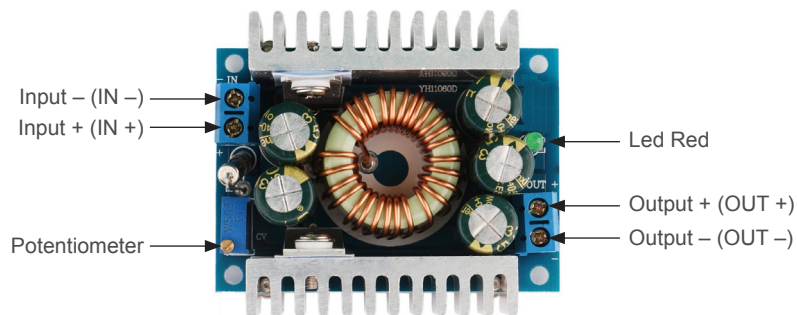
Item	Value	Remarks
Description	Step-down (buck)	
Power	100W	Input max. 200W with heatsink.
Input range	4.5V ~ 30V	
Output range	1.25V ~30V	
Output current	0 ~ 7.5A	
Working temperature	-40°C ~ +85°C	If working temperature is higher than 40°C working power should be reduced or heat dissipation should be improved.
Conversion efficiency	<91%	The smaller the difference between the input and output voltage, the higher the efficiency.
Dimensions	60 x 51 x 22 mm	
Weight	75.68g	
Connection mode	Terminals	
Waterproof	IP20	
Shortcircuit protection	No	Fuses and protection circuits must be installed on the input side.
Input reverse polarity	No	A protection diode must be installed on the input side.
Temperature protection	Yes	The system shuts off automatically due to overheating.
Input current (peak)	12A	
Switching frequency	300KHz	

DCDC-RED100-7.5A
100W step down modules

Operation

Input		Output		P(in)	P(out)	Efficiency
V (V)	I (Ah)	V (V)	I (Ah)	W	W	%
30.00	3.32	28.06	3.50	99.60	98.21	99
30.00	0.58	1.21	8.00	17.40	9.68	56
24.00	4.06	12.00	7.40	97.44	88.80	91
24.00	3.28	5.00	6.00	78.72	72.00	91
24.00	1.93	5.00	7.50	46.37	37.50	81
12.00	4.04	5.00	8.00	48.48	40.00	83
12.00	2.62	3.30	7.50	31.44	24.75	79
5.00	5.70	3.30	6.40	28.50	21.12	74
4.50	2.50	1.25	5.60	11.25	7.00	62

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.
- Do not reverse polarity of the input and output connections.

Warnings!

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.