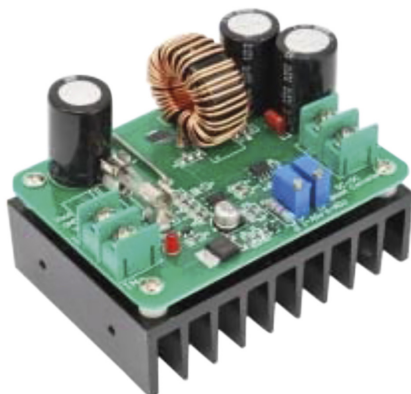


DCDC-EL600-10A step up module



This is a high-performance switching boost module with 10A current.

The module is the second generation of high-frequency switching technology and uses UC3843A core chip.

Specifications

Item	Value	Remarks
Description	Step-up (BOOST) voltage converter	
Power	360W	Input max.
Input range	12 ~ 60V	Working optimum range: 12V → 120W / 24V → 240W / 36V → 360W (*)
Output range	12 ~ 67,40V	
Output current	0 ~ 10A	0-200W: 10A of input (*) 200-300W: 9.5A of input (*) 300-400W: 9A of input (*)
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	<95%	Input voltage and current and output voltage and current influence conversion efficiency.
Dimensions	85x63x64mm	
Weight	251g	
Connection mode	Terminals	
Waterproof	IP20	
Shortcircuit protection	Si	15A Fuse
Input reverse polarity protection	No	
Overvoltage protection	No	
Temperature protection	No	
No load current	0 ~ 15A	
Input current (peak)	15A	
Output ripple	50mV	Max.

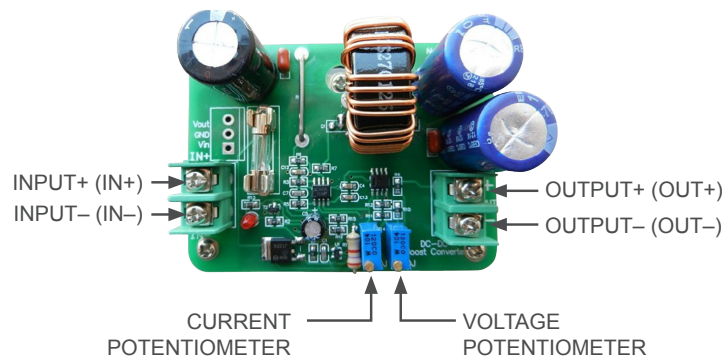
(*) See operaton chart

DCDC-EL600-10A step up module

Operation

Input		Output		P(in)	P(out)	Efficient
V (V)	I (Ah)	V (V)	I (Ah)	W	W	%
12.00	9.61	23.42	4.20	115.32	98.36	85.30%
12.00	9.87	35.39	2.90	118.48	102.63	86.63%
12.00	9.75	47.28	2.17	117.00	102.60	87.69%
12.02	9.67	59.10	1.70	116.23	100.47	86.44%
12.00	9.53	66.00	1.50	114.36	99.00	86.57%
24.02	9.77	36.17	5.90	234.68	213.40	90.94%
24.00	9.89	46.66	4.60	237.36	214.64	90.43%
24.00	9.80	59.19	3.60	235.20	213.02	90.57%
24.00	9.94	67.41	3.20	238.56	215.64	90.39%
36.02	9.76	58.86	5.50	351.63	323.73	92.07%
48.00	5.52	66.00	3.80	264.91	250.80	94.67%
60.00	4.06	66.52	3.50	243.78	232.82	95.50%

Use mode



- First, turn the potentiometer clockwise to raise 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.
- Do not reverse polarity of the input and output connections.
- Set output voltage before connecting load.

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.