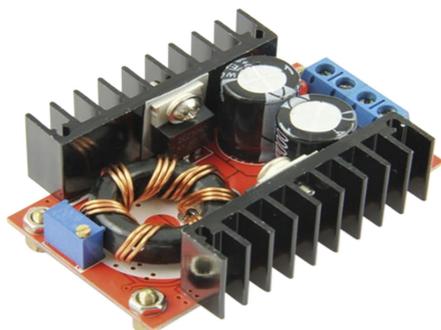

DCDC-EL100-6A

step up module



This is a high-performance switching boost module with 6A current.

The module is the second generation of high-frequency switching technology and uses STPS2045CT core chip.

Specifications

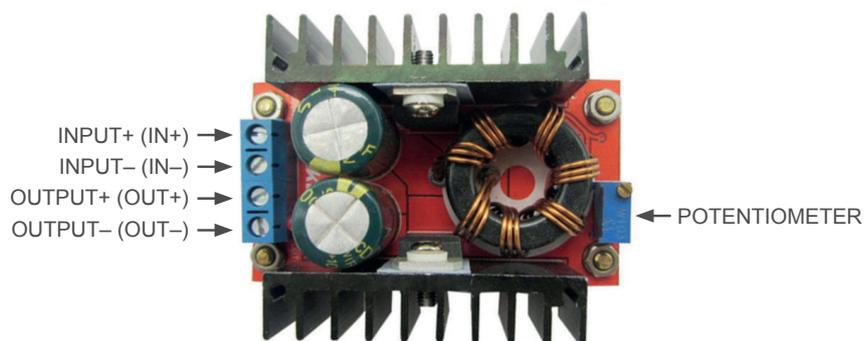
Item	Value	Remarks
Description	step-up (BOOST) voltage converter	
Power	100W	Input max.
Input range	10 ~ 32V	
Output range	12 ~ 35V	
Output current	0 ~ 6A	
Working temperature	-40°C ~ +85°C	If working temperature is higher than 40°C working power should be reduced or heat dissipation should be improved.
Conversion efficiency	93%	The smaller the difference between the input and output voltage, the higher the efficiency.
Dimensions	65x47x23.5 mm	
Weight	70g	
Connection mode	Terminals	
IP	IP20	
Shortcircuit protection	No	Fuses and protection circuits must be installed on the input side.
Input reverse polarity protection	No	A protection diode must be installed on the input side.
Output ripple	2% (max)	The higher the voltage or the current, the greater the ripple.
Load regulation	± 0.5%	
Voltage regulation	± 0.5%	
Full load temperature rise	45°C	
Dinamic response speed	5% 200us	

DCDC-EL100-6A
set up module

Operation

Input		Output		P(in)	P(out)	Efficiency
V (V)	I (Ah)	V (V)	I (Ah)	W	W	%
24	4.24	34.0	2.8	101.76	95.20	93.55%
12	9.36	34.0	2.8	112.32	95.20	84.76%
12	8.22	24.0	3.6	98.64	86.40	87.59%
10	8.98	34.2	2.2	89.80	75.24	83.79%
10	6.75	12.0	5.0	67.50	60.00	88.89%
10	9.50	24.1	2.8	95.00	67.48	71.03%
10	9.93	14.4	6.0	99.29	86.22	86.84%

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, secure and no risk of falling.
- 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.