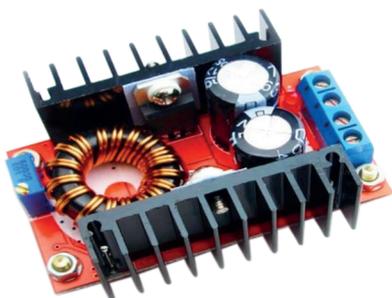


## DCDC-EL80-2A

### 80W step up module



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

The module is the second generation of high-frequency switching technology and uses STPS20H100CT core chip.

### Specifications

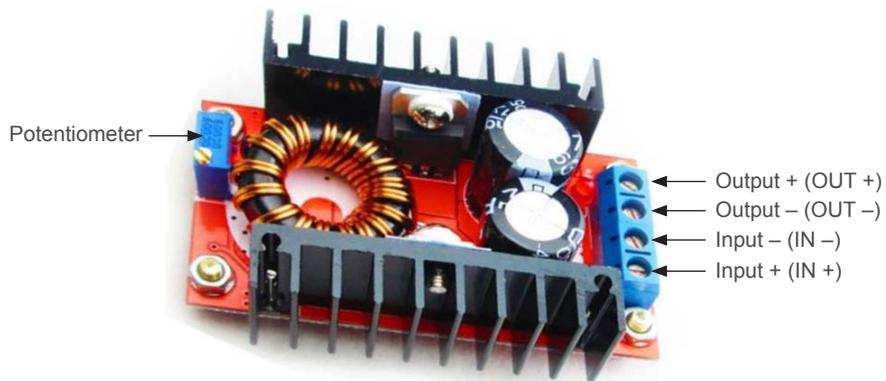
Item	Value	Remarks
Description	Step-up (boost)	
Power	80W	Input max.
Input range	10V ~ 32V	
Output range	35V ~ 58V	Output voltage must be at least 1.5V higher than input voltage.
Output current	0 ~ 2A	
Working temperature	-40°C ~ +85°C	If working temperature is higher than 40°C working power should be reduced or heat dissipation should be improved.
Conversion efficiency	<99%	The smaller the difference between the input and output voltage, the higher the efficiency.
Dimensions	65 x 47 x 023,5 mm	
Weight	70g	
Connection mode	Terminals	
IP	IP20	
Shortcircuit	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.
No load current	No	With 5V input, 8V output. The higher the output voltage, and/or the higher the difference between input voltage and output voltage, the higher the no load current.
Output ripple	25mA	The higher the voltage or the current, the greater the ripple.
Load regulation	±0.5%	
Vooltage regualtion	±0.5%	
Full load temperature rise	45°C	
Dynamic response speed	5% 200us	

**DCDC-EL80-2A**  
**80W** step up module

### Operation

Input		Output		P(in)	P(out)	Efficiency
V (V)	I (Ah)	V (V)	I (Ah)	W	W	%
11.0	7.10	36.5	1.2	78.10	43.8	56.08%
12.4	3.99	47.9	0.8	49.48	38.32	77.45%
24.5	3.16	36.5	2.1	77.42	76.65	99.01%
24.5	3.15	47.9	1.6	77.18	76.64	99.31%
32.6	2.55	47.9	1.7	83.13	81.43	97.96%
32.6	2.45	57.9	1.3	79.87	75.27	94.24%

### 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.