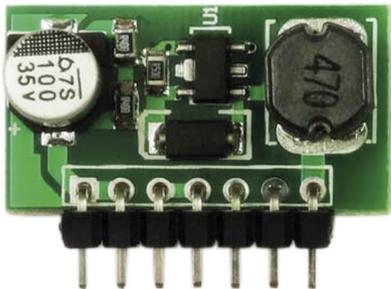


DCDC-DRIVER1-300MA constant current module



This module is a 300mA constant current driver for 7 leds of 1W.

It is a solution with very good performance. It is not necessary to use resistors at the output of the driver.

Specifications

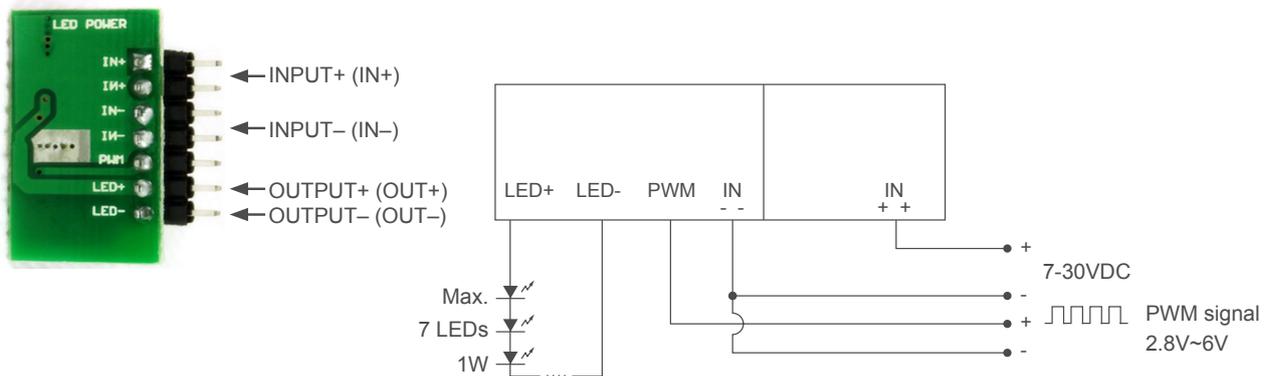
Item	Value	Remarks
Description	Driver CC	Constant current
Power	7W	Max 7 Leds of 1W
Input range	7 ~ 30V	Working optimum range is 24V
Output range	1,2 ~ 28V	Output voltage must be at least 2V higher than input voltage
Output current	300mA	Constant current
Working temperature	-40°C ~ +71°C	If working temperature is higher than 40°C working power should be reduced or heat dissipation should be improved
Conversion efficiency	97%	The smaller the difference between the input and output voltage, the higher the efficiency
Dimensions	26*14*10 mm	
Weight	3.5 g	
Connection mode	Pins	
Waterproof	IP20	
Shortcircuit protection	Yes	
Input reverse polarity protection	No	
Output ripple	2% (max)	The higher the voltage or the current, the greater the ripple
Output current precision	± 3%	
Output Current Stability	± 1%	
Internal power dissipation	700mW	Input 24V and 5 Leds
Rippel and noise	120mV	Input 24V and 5 Leds
PWM signal frequency	1000Hz	Min 20Hz, MAX 20000Hz
PWM signal	2.8V - 6V	

DCDC-DRIVER1-300MA constant current module

Operation

Input		Output		P(in)	P(out)	Efficiency
V (V)	I (Ah)	V (V)	I (Ah)	W	W	%
7.98	0.14	3.00	0.32	1.14	0.97	85.18%
6.98	0.08	1.20	0.33	0.57	0.39	68.35%
30.00	0.28	27.99	0.29	8.40	8.20	97.63%
30.00	0.03	1.20	0.28	0.75	0.34	44.80%

Use mode



- Do not exceed the input power limits.
- Do not connect more than 7 leds of 1W in series.
- Do not short-circuit the input and output connections.
- Do not reverse polarity of the input and output connections.
- PWM signal between the indicated values.

Warning!

To prevent fire shock hazard do not expose this appliance to rain or moisture.

Caution!

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.