High Efficiency LED Driver DCCP Series

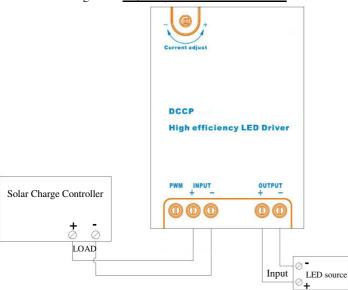
Thank you very much for purchasing this DCCP product! Please read this manual carefully and thoroughly before using the product.

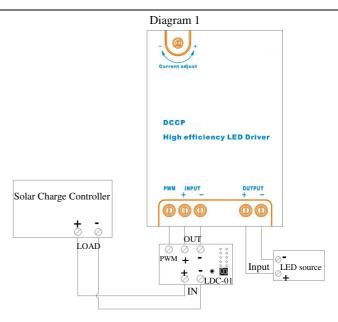
Features

- \bullet Wide input voltage range: DC 8V ~ 32V, compatible with 12V/24V full voltage range
- •High-precision constant current control ,control precision less than ±2%
- Advanced high frequency pre-switching off current control for realization of high conversion efficiency, reliability and stability
- \bullet Efficiency is not less than 93% in 12V system, and not less than 95% in 24V system. The peak efficiency is as high as 96%.
- High-power density design, small volume and easy installation
- •Power driven-filter using long-life metalized thin-film capacitor to assure life span of LED driver
- •Output current can be adjusted accordingly within ranges of rated power and current
- •High stability liner PWM duty cycle dimmer control
- •Extensive electronic protection: input polarity reverse protection, output short circuit protection and output open circuit protection
- •Industrial grade working temperature : 40°C ~ + 65 °C
- •PCB resin treatment for high moisture proof and antifogging
- •Natural cooling
- •Optional LED driver controller LDC-01 which can realize max. 4 -timer working. For each timer, $0\sim9$ working hours and $0\sim100\%$ output power is adjustable. The output power can also be adjusted automatically with changes of battery voltage and temperature (Please refer to LDC-01 user's manual)

Wiring

Typical application wiring diagram shows as below: If no dimmer function need, please refer to Diagram1. If dimmer function needed, please refer to Diagram 2. *Pay more attention to '+' and '-'*.





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Diagram 2

Power adjustment

When adjust the output current via potentiometer, the output power will vary accordingly. Please use a small '-' screwdriver to rotate the knob 'Current adjustment' as below pictures. <u>Users can adjust the output power as per actual demands. Please monitor the current with high-precision instruments to guarantee the reliability of power adjustment.</u>

Clockwise for reducing power: Anticlockwise for increasing power:





Notes: For testing purpose, user can adjust the input voltage by power supply instead of battery. However, please confirm that both input voltage and input current cannot exceed the specified values (refer to Parameters), otherwise LED driver may be damaged. For example, when adjust DCCP6060 from 24V,60W to 12V,30W,please adjust the output power to 30W first. Then adjust the input voltage to 12V.Because when battery changes, the current will vary inversely so as to keep the constant output power.

Notes: The default setting for the driver shows as below:

DCCP40: 12V,20W; DCCP60: 12,30W; DCCP100: 12,50W.

Parameters

DCCP Series

Nominal voltage	12V/24VDC compatible
Input voltage range	8 ~ 32VDC
Output current precision	<2%
Typical efficiency	12V input: 93%; 24V input: 95%
PWM dimmer control	PWM: 0% ~ 100%; Output Power: 0W ~ Nominal

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DCCP40XX

Туре	DCCP4040	DCCP4060
Max. output power	12V : 20W	24V: 40W
Max. input current	2A	
Output voltage range: Decided by LED	Max. input ~ 40V	Max. input ~ 60V
Output current range	0.3 ~ 2A (Limited by Max. input power)	

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Any changes without prior notice!

DCCP60XX:

100-108-	

DCCP100XX:

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1	
115.91 105.82	
<u> </u>	2.5
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Warranty

This series product is warranted to be free from defects for a period of TWO (2) years from the date of shipment to the original end user. We will, at its option, repair or replace any such defective products.

•This warranty does not apply under the following conditions:

- 1. Damage by accident, negligence, abuse or improper use.
- 2. Input voltage or current exceeding the ratings of product.
- 3. Unauthorized product modification or attempted repair.
- 4. Damaged occurring during shipment.
- 5. Damage results from acts of nature such as lightning, weather extremes.

DCCP60XX

Туре	DCCP6040 DCCP6060	
Max. output power	12V · 30W	24V · 60W
Max. input current	3A	
Output voltage range: Decided by LED	Max. input ~ 40V	Max. input ~ 60V
Output current range	0.3 ~ 3A (Limited by Max. input power)	

DCCP100XX

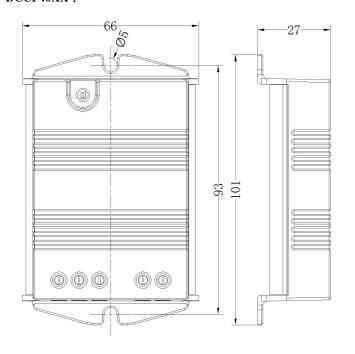
Туре	DCCP10040	DCCP10060
Max. output power	12V:50W 24V:100W	
Max. input current	5A	
Output voltage range: Decided by LED	Max. input ~ 40V	Max. input ~ 60V
Output current range	0.3 ~ 5A (Limited by Max. input power)	

Others

Type	DCCP40	DCCP60	DCCP100
Ambient Temp.	-40°C ~ +65°C		
Storage Temp.	-40°C ~ +85°C		
Humidity	0 ~ 95% N.C.		
Enclosure	IP30		
Altitude	≤5000m		
Overall (mm)	101 x 66 x 27	108 x 69 x 27	116x74.5x32.5
Mounting (mm)	93 (vertical)	100 (vertical)	105.8(vertical)
Mounting hole	Ф5 (R2.46)		
Terminal	2.5mm ²		
Net Weight	80g	95g	162g

Dimensions

DCCP40XX:



Final interpretation right of the manual belongs to EPSOLAR.

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6. Irreclaimable mechanical damage.

Version Number: V1.1

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