

Non-isolated DC-DC Converter

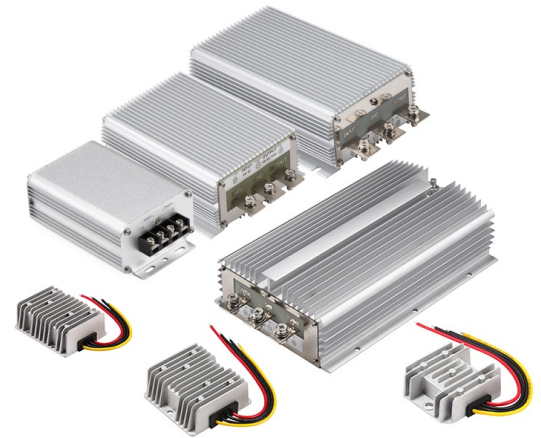
Compact Size, Full-load Efficiency > 90%

Epoxy Resin Sealing, IP67

Low Cost & Long Life Circuit Design

Customize Solution Available

CLL is a low cost series designed for common usage in low voltage range (3-56VDC). It is a cost effective solution for pumps, LED lights, motors etc.



Small case (66×59×24 mm)

Big case (74×72×28 mm)

Customize solution available with CLL Series:
input and output voltage between 5VDC ~ 56VDC
Output power < 2500W



Input Characteristic

Default Input Voltage Range* :

Step-up Converter:

12V = 10~15VDC

24V = 20~30VDC

Step-down Converter:

12V = 10~30VDC

24V = 18~36VDC

36V = 30~44VDC

48V = 40~56VDC

40V = 30~60VDC

Input Reverse Protection:

NOT implemented by default **

Output Characteristic

Full-load Efficiency: 90-94%***
Ripple p-p: 300MV MAX
Load Regulation: 1.5%
Max Non-load Consumption: 0.5% of full-load power
Over-load Protection: +10% of rated output current
Short-circuit Protection: yes

Other info

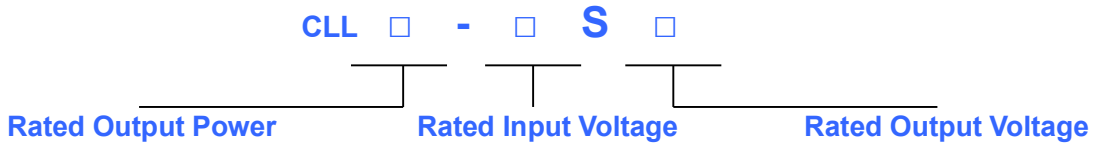
Allowed Case Temperature: -10°C ~ 75°C
Storage Temperature: -20°C ~ 80°C
Storage Humidity: 20-90%
Weight:
Small Case: 170-190g
Big Case: 240-280g

* Input range can be customized, the range listed is for standard types. Input range is not always the same for different models

** Can implement in customize products

*** Not every model can achieve 94% efficiency.

Naming method:



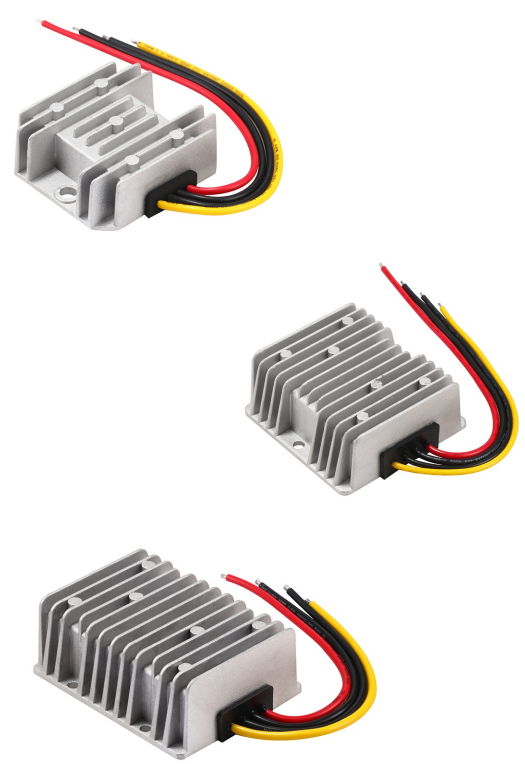
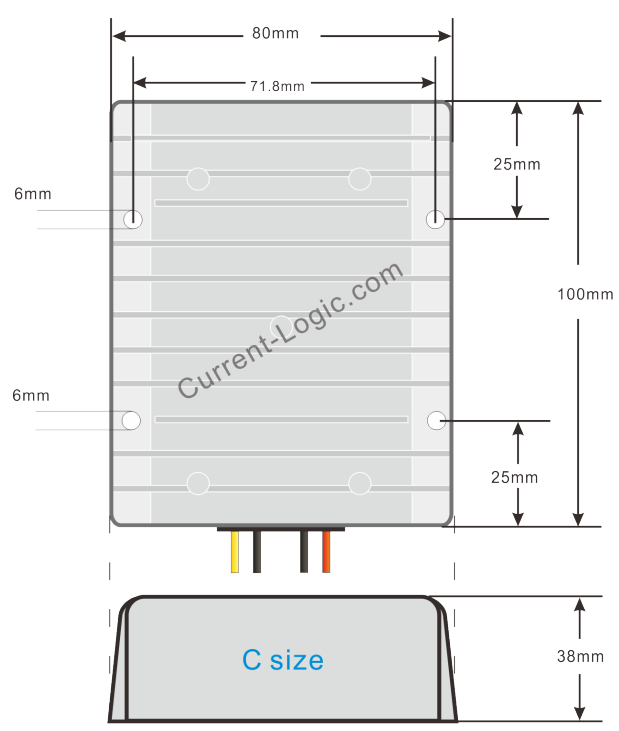
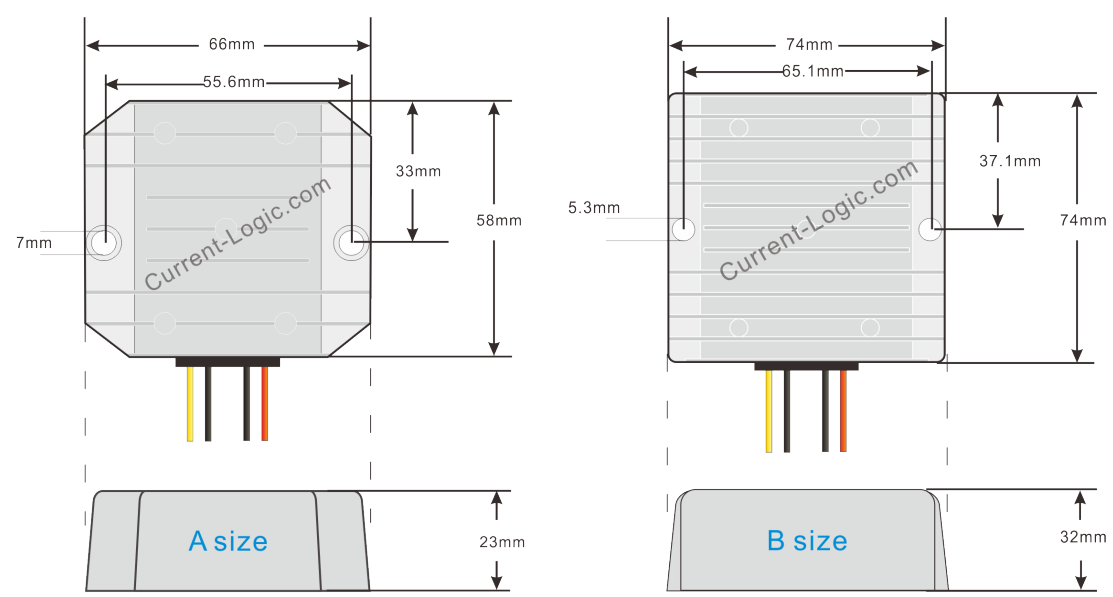
Common Types:

Input Voltage(V)	Output Voltage(V)	Max Output Power (W)	Part Number	Case type
12/24	5	25	CLL25-12S05	A
12/24	5	50	CLL50-12S05	A
12/24	5	100	CLL100-12S05	B
12/24	5	150	CLL150-12S05	B
12/24	5	200	CLL200-12S05	B
12/24	5	250	CLL250-12S05	C
12/24	5	300	CLL300-12S05	C
36	5	50	CLL50-36S05	A
36	5	100	CLL100-36S05	B
36	5	150	CLL150-36S05	B
36	5	200	CLL200-36S05	B
36	5	250	CLL250-36S05	C
36	5	300	CLL300-36S05	C
48	5	50	CLL50-48S05	A
48	5	100	CLL100-48S05	B
48	5	150	CLL150-48S05	B
48	5	200	CLL200-48S05	B
48	5	250	CLL250-48S05	C
48	5	300	CLL300-48S05	C
12	12	36	CLL36-12S12	A
12	12	72	CLL72-12S12	B
12	12	120	CLL120-12S12	B
24	12	60	CLL60-24S12	A
24	12	120	CLL120-24S12	B
24	12	240	CLL240-24S12	B
24	12	360	CLL360-24S12	C
36	12	60	CLL60-24S12	A
36	12	120	CLL120-24S12	B
48	12	60	CLL60-24S12	A

48	12	120	CLL120-24S12	B
60	12	60	CLL60-24S12	B
60	12	120	CLL1200-24S12	B
12	24	72	CLL72-12S24	A
12	24	120	CLL120-12S24	B
12	24	240	CLL240-12S24	B
12	24	360	CLL360-12S24	C
24	24	60	CLL60-24S24	B
24	24	144	CLL144-24S24	B
36	24	72	CLL72-24S24	A
36	24	120	CLL120-24S24	B
48	24	72	CLL72-24S24	B
48	24	120	CLL120-24S24	B
48	24	240	CLL240-24S24	B
48	24	360	CLL360-24S24	C
60	24	72	CLL72-24S24	B
12	36	72	CLL72-12S12	A
24	36	72	CLL72-24S12	A
48	36	72	CLL72-24S12	A
60	36	72	CLL72-24S12	B
12	48	48	CLL48-12S48	A
12	48	120	CLL120-12S48	B
12	48	240	CLL240-12S48	B
12	48	360	CLL360-12S48	C
24	48	48	CLL48-24S48	A
24	48	120	CLL120-24S48	B
24	48	240	CLL240-24S48	B
24	48	360	CLL360-24S48	C
36	48	48	CLL48-36S48	A
60	48	48	CLL48-60S48	B

It is not practical to list all possible input/output params, if you need special in/out, please contact us for more info

Dimensions info:



NOTE: The size may change slightly (a few mm). If you need exactly the same size, please contact before ordering.