K&L ®

KINGLUMI CO.,LTD.

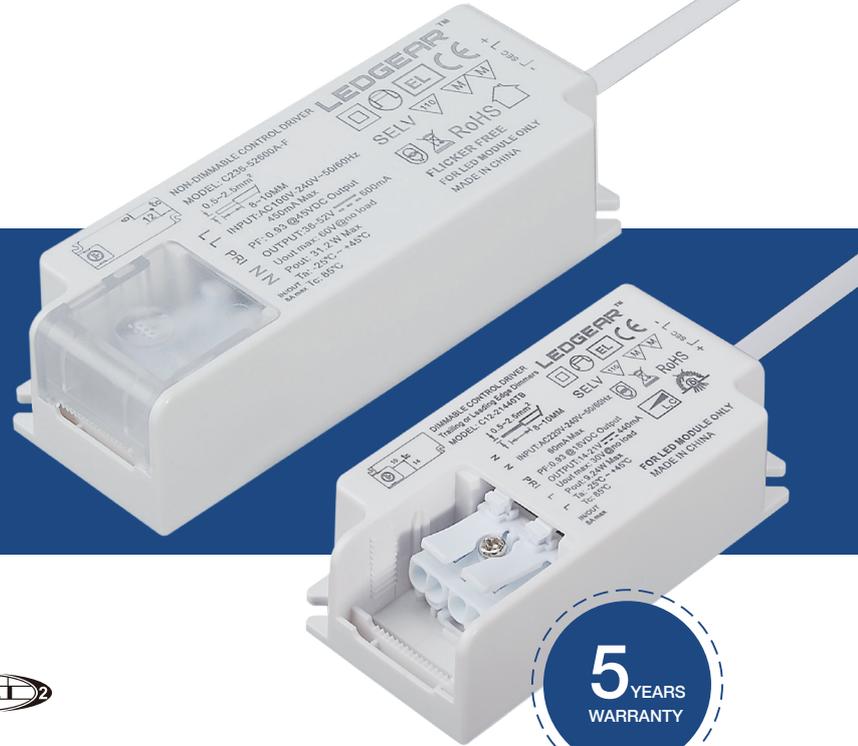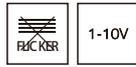# LEDGEAR™

A LED driver family with strain-relief
and loop through function
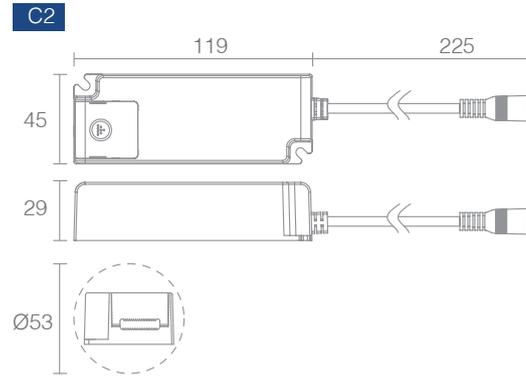for quick installation.
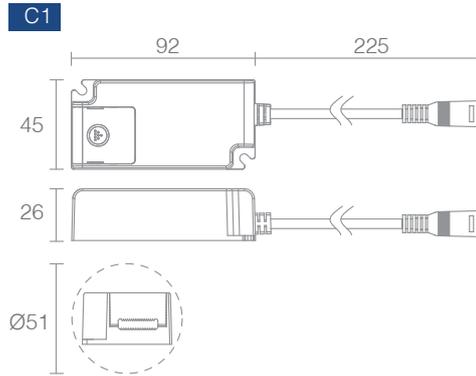
Triac Dimmable, ON/OFF, One4All

CB **RoHS** SELV **IP44**

1-10V

5 YEARS WARRANTY

Dimensions

C1

| 92 | 225 |

45

26

Ø51

C2

| 119 | 225 |

45

29

Ø53

Product description

- Independent with strain-relief
- Constant current output
- Output power from 3W to 43W
- DC Connector 22cm length cable with female plug-in terminal
- Reliable, Class II, SELV according EN 61347
- Suitable for emergency lighting with DC input
- Compatible with trailing or leading edge dimmers(10%~100%)
- For downlight can be insert into Min. 55mm ceiling cut-out hole
- For luminaires of protection class I, class II, class III
- IP44(not include terminals) case with silicone-based potting
- Working Ta=-25°C ~ +45°C
- 50,000 hrs nominal lifespan
- 5-year factory guarantee

Benefits

- Application-oriented operating window for maximum compatibility
- No tools required for installation
- Strain-relief and loop through function for quick installation.
- Through wiring with 4-hole press-in type terminal(L, L, N, N); Max. 8A.
- Permissible AC cable 0.5-2.5mm² wire gauge, 3.5~12mm PVC jacket diameter

Functions

- Over current protection
- Over voltage protection
- Over temperature protection
- Over load protection
- Short-circuit protection
- No-load protection

LEDGEAR

Technical Data

Model #	Dimming	Input	Output Voltage	Output Current	Flicker %	Typ. PF	Typ. EFF.	Typ. THD
C106-42120A-F	NO-DIMMABLE	AC100V-240V	30-42V	120mA	Flicker Free	0.92	79%	<15%
C108-42160A-F	NO-DIMMABLE	AC100V-240V	30-42V	160mA	Flicker Free	0.92	82%	<15%
C110-42180A-F	NO-DIMMABLE	AC100V-240V	30-42V	180mA	Flicker Free	0.92	82%	<15%
C112-42220A-F	NO-DIMMABLE	AC100V-240V	30-42V	220mA	Flicker Free	0.92	82%	<15%
C114-42280A-F	NO-DIMMABLE	AC100V-240V	30-42V	280mA	Flicker Free	0.95	84%	<15%
C218-42400A-F	NO-DIMMABLE	AC100V-240V	24-42V	400mA	Flicker Free	0.90	84%	<15%
C224-42500A-F	NO-DIMMABLE	AC100V-240V	24-42V	500mA	Flicker Free	0.92	84%	<15%
C230-42650A-F	NO-DIMMABLE	AC100V-240V	24-42V	650mA	Flicker Free	0.92	85%	<15%
C236-42750A-F	NO-DIMMABLE	AC100V-240V	24-42V	750mA	Flicker Free	0.90	86%	<15%
C243-42850A-F	NO-DIMMABLE	AC100V-240V	24-42V	850mA	Flicker Free	0.90	86%	<15%
C106-42120TB	Triac/Phase-Cut	AC220V-240V	30-42V	120mA	<32%	0.85	80%	<18%
C108-42160TB	Triac/Phase-Cut	AC220V-240V	30-42V	160mA	<32%	0.85	81%	<18%
C110-42180TB	Triac/Phase-Cut	AC220V-240V	30-42V	180mA	<32%	0.90	82%	<18%
C112-42220TB	Triac/Phase-Cut	AC220V-240V	30-42V	220mA	<32%	0.93	83%	<18%
C114-42280TB	Triac/Phase-Cut	AC220V-240V	30-42V	280mA	<32%	0.95	83%	<18%
C218-42350TB	Triac/Phase-Cut	AC220V-240V	30-42V	350mA	<18%	0.92	83%	<20%
C221-42450TB	Triac/Phase-Cut	AC220V-240V	30-42V	450mA	<18%	0.92	86%	<20%
C224-42500TB	Triac/Phase-Cut	AC220V-240V	30-42V	500mA	<18%	0.92	87%	<20%
C230-42620TB	Triac/Phase-Cut	AC220V-240V	30-42V	620mA	<18%	0.94	87%	<20%
C236-42750TB	Triac/Phase-Cut	AC220V-240V	30-42V	750mA	<18%	0.94	87%	<20%
C243-42900TB	Triac/Phase-Cut	AC220V-240V	30-42V	900mA	<18%	0.95	87%	<20%

* 24/30-42V is typical option, there are other output voltage range within 8-52V with various output current options;

* Smart thermal & current control: output current auto reduction when detected abnormal case temperature, and recovery when in normal;

* The above PF, efficacy is mearsured at typical working condition.
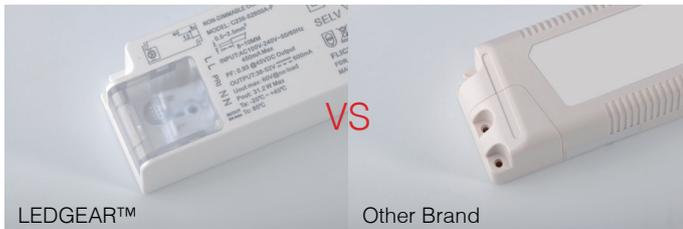
Why choose Kinglumi LEDGEAR™?

According to EN 60598-1, there are two categories of LED driver: Independent Control Gear(driver) & Built-in control gear

The key difference between Independent & Built-in control gear:
• Independent control gear has a strain relief for AC cable; don't need an extra junction box
• Independent control gear can be mounted separately outside a luminaire; while built-in driver ONLY can be built into a luminaire and not intended to be mounted outside a luminaire without special precautions.

Built-in driver   +   Junction box   =   LEDGEAR™

As a luminaires(driver, optical…) one-stop R&D supplier, Kinglumi knows more details of the project requirements than the driver manufacturers. Kinglumi LEDGEAR™ is a independent driver positioned for QUICK INSTALL(flexible through wiring, strain relief channel), GOOD DIMMING (synchrony, compatibility) and RELIABLE QUALITY(Long Lifespan, Safety). More details as following:

LEDGEAR™   VS   Other Brand

LEDGEAR™   IN/OUT 8A Max.   VS   Other Brand   IN/OUT 3A Max.
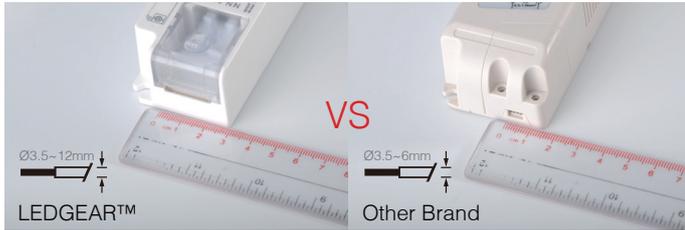
Cap Fixing
LEDGEAR™ has no screws to fix, easier and quicker; Also, the transparent cap make it easy to double check the wiring(lose or tight) without open it.

AC Connector
LEDGEAR™ provides 2pole Pushwire Connector. advantages:
1. Quick install, easy loop in & loop out
2. Up to 8A Max. current for more luminaires in parallel connection.

Ø3.5~12mm

LEDGEAR™

VS

Ø3.5~6mm

Other Brand

LEDGEAR™

VS

Other Brand

AC input cable

LEDGEAR™ is permissible for cable jacket diameter:3.5mm~12mm, and looping. While other brand only offer 6mm width space for single small cable.

Cable clamp

LEDGEAR™ provides long strain relief(30 x 45 x 26/29 mm) for the cables. While other bands don't include a cable clamp, or not enough space on the input cable.

LEDGEAR™

VS

0.5~2.5mm², 8~10mm

Other Brand

0.5~1.5mm², 3~5mm

LEDGEAR™

VS

Other Brand

Input Wire Diameter

The wiring for LEDGEAR™ can be in stranded wires with ferrules or solid with a cross section of 0.5–2.5 mm². Other brand only suitable for 0.5-1.5mm².
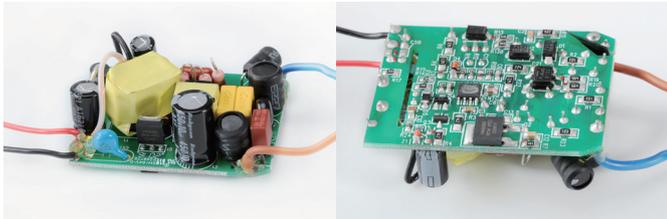
DC cable

LEDGEAR™ includes a 225mm length DC cable with 5521(female) DC connector, or other option. Other brand don't have any DC cable and connector.
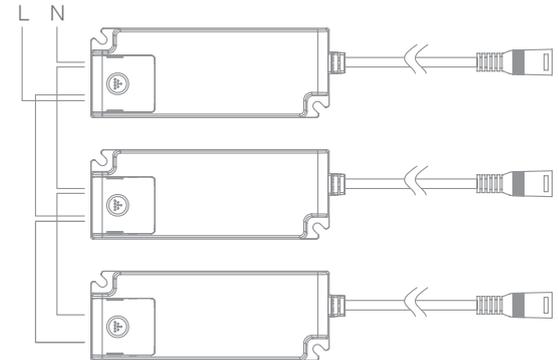
High-Quality Raw Materials

• Housing: UL 94 V0 fire resist polycarbonate housing

• Glow wire: 650°C approved

• IC Controller: World top IC brands, mostly NXP of Philips, iWatt from Dialog Semiconductor.

• Transformer core: TDK PC40 or equivalent

• PCB: Double layer PCB, cost a bit higher compare to Single layer, but higher quality consistency.

• Connections: with certified Push-in terminals for easy installation, Loop in and Loop out

• Cable Release: More extra space at AC input for Independent LED Driver with cable clamps. (strain relief at both AC and DC parts)

High and Strict Testing Standard

• -30°C /+50°C thermo cycling test at both Min & Max output, if dimmable
  products, also will tested with the Damp Heat Test
  (85°C 85％，504hrs) for insulation direct cover driver
  (50°C 85％，504hrs) for normal driver

• LVD(Safety): EN61347-1:2015 EN61347-2-13:2014

• EMC: EN 55015:2013+A1:2015; EN61000-3-2:2014; EN61000-3-3:2013; EN61547:2009

• ROHS: EN62321: 2012 EN14372:2004 EPA:3540:1996

• SAA: AS/NZS IEC 61347.2.13:2013 ; AS/NZS IEC 61347.1:2016

Wiring Diagram

Certificate

☐   Protection class II device in which protection against electric shock is not based solely on the basic insulation but in which there are additional safety features such as double or enhanced insulation. It is independent of the protection measures of the fixed installation.

EL   A.c and/or d.c. maintained emergency electronic control gear / LED Driver.

Ṽ Ṽ   The device is suitable for installing on or in furniture which is made from materials with unknown flammability properties.

RoHS   RoHS (Restriction of the use of certain Hazardous Substances in electrical and electronic equipment) summarises EU directive 2002/95/EC on the prohibition of certain substances in the manufacture and processing of electrical and electronic equipment and components.

    Short-circuit-proof with safety insulation / Non-short-circuit-proof with safety insulation

    Mark for an independent gear. The gear must not be mounted inside the luminaire

SELV   Safety Extra-Low-voltage

    C-TICK

    For Indoor use

SAA   SAA

    When the end user intends to discard this product, it must be sent to an appropriate facility for recycling and recycling.

110   Pictogram for temperature-protected devices. The temperature shown is the maximum surface temperature in the event of a fault at rated ambient temperature.

Coming soon…

LEDGEAR™ One4all Driver:
• Functions: DALI II, 1-10V, PWM, PUSH, CDS, PIR
• Current adjustable with DIP switches
• Output Voltage 14-42[27-36V]
• Output Current 550mA ~1100mA
• Flicker free

LEDGEAR™ Smart Driver:
• Flicker free
• Bluetooth MESH
• Control by smart phone App
• Control: Grouping, Sense Setting, Memory
• Lighting: Brightness dimming, CCT adjustable

K&L ®
KINGLUMI CO.,LTD.

Kinglumi has set its social networks on Facebook, Linkedin, Youtube and Twitter, new products and company news will be posted on all these platform. It would be a pleasure to meet you there, and you can "share" and "like" what you are interested in.

www.facebook.com   www.linkedin.com   www.youtube.com   www.twitter.com

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