## Intelligent LED Driver (Constant Current)

- The housing is made from V0 flame retardant PC materials from SAMSUNG/COVESTRO.
- Small size and light weight. The clamshell design and screwless type for strain-relief
- Support Leading edge(Triac), Trailing edge(ELV).
- With soft-on and fade-in dimming function, enhancing your visual comfort.
- T-PWM ${ }^{T M}$ dimming technology allows continuous and flicker-free images under high-speed photography
- Dimming from $0 \sim 100 \%$, down to $0.01 \%$
- The whole dimming process is flicker-free with high frequency exemption level.
- Multiple current levels and wide voltage range. Suitable for different power of LEDs
- Class 2 LED driver, Safety Extra Low Voltage (SELV).
- Innovative thermal management technology intelligently protects the life of the LED driver.
- Overheat, overload, short circuit protection and automatic recovery.
- Suitable for Class I / II / III indoor light fixtures
- Up to 50,000-hour life time.
- 5-year warranty (Rubycon capacitor)


## T-PWM <br> Dimming Technology

## Flicker Free

IEEE 1789

## Dimmable: <br> 1.1IIIIIIIIIII $0.01 \%-100 \%$



## Technical Specs



LED Current Selection
DIP Switch


| SE－40－300－1050－G1T | DIP Switch | 】 】 】 | 】】】「 | 】】「】 | 円1「T | 」T】 ！ | 】「】 ¢ | 回T「1 | 山甲甲 | 甲 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Output Current | 300 mA | 350 mA | 400 mA | 450 mA | 500 mA | 550 mA | 600 mA | 650 mA |  |
|  | Output Voltage | $9-42 \mathrm{~V}$ | $9-42 \mathrm{~V}$ | $9-42 \mathrm{~V}$ | $9-42 \mathrm{~V}$ | $9-42 \mathrm{~V}$ | $9-42 \mathrm{~V}$ | $9-42 \mathrm{~V}$ | $9-42 \mathrm{~V}$ | ON |
|  | Output Power | 2．7－12．6W | 3．15－14．7W | 3．6－16．8W | 4．05－18．9W | 4．5－21W | 4．95－23．1W | 5．4－25．2W | 5．85－27．3W |  |
|  | DIP Switch | 「】】】 | 甲 $\downarrow$ ¢ | ワ】「耑 | 甲リヤワ | †「」1 | 甲「1 | 甲甲甲 | 甲甲甲† | $\underset{\mathrm{OFF}}{\boldsymbol{\dagger}}$ |
|  | Output Current | 700 mA | 750 mA | 800 mA | 850 mA | 900 mA | 950 mA | 1000 mA | 1050 mA |  |
|  | Output Voltage | $9-42 \mathrm{~V}$ | $9-42 \mathrm{~V}$ | $9-42 \mathrm{~V}$ | $9-42 \mathrm{~V}$ | $9-42 \mathrm{~V}$ | $9-42 \mathrm{~V}$ | $9-40 \mathrm{~V}$ | $9-38 \mathrm{~V}$ |  |
|  | Output Power | 6．3－29．4W | 6．75－31．5W | $7.2-33.6 \mathrm{~W}$ | $7.65-35.7 \mathrm{~W}$ | 8．1－37．8W | $8.55-39.9 \mathrm{~W}$ | 9－40W | $9.45-39.9 \mathrm{~W}$ |  |
| SE－30－150－900－G1T | DIP Switch | 】 $\downarrow \downarrow$ | 】】ゅ甲 | 山】「】 | ゅ】甲T | ¢T】 $\downarrow$ | 山甲 ¢ | 山甲「】 | 䦼甲 | $\mathrm{ON}$ |
|  | Output Current | 150 mA | 200 mA | 250 mA | 300 mA | 350 mA | 400 mA | 450 mA | 500 mA |  |
|  | Output Voltage | $9-42 \mathrm{~V}$ | $9-42 \mathrm{~V}$ | $9-42 \mathrm{~V}$ | 9－42V | $9-42 \mathrm{~V}$ | $9-42 \mathrm{~V}$ | $9-42 \mathrm{~V}$ | 9－42V |  |
|  | Output Power | 1．35－6．3W | 1．8－8．4W | 2．25－10．5W | 2．7－12．6W | $3.15-14.7 \mathrm{~W}$ | 3．6－16．8W | 4．05－18．9W | 4．5－21W |  |
|  | DIP Switch | 甲 】 】 | 甲】 ■ | 「」「亩 |  | $\mp \mp \downarrow \downarrow$ | 甲甲 ¢ | 「T「】 |  | $\underset{\text { OFF }}{\boldsymbol{\dagger}}$ |
|  | Output Current | 550 mA | 600 mA | 650 mA | 700 mA | 750 mA | 800 mA | 850 mA | 900 mA |  |
|  | Output Voltage | $9-42 \mathrm{~V}$ | $9-42 \mathrm{~V}$ | 9－42V | $9-42 \mathrm{~V}$ | $9-40 \mathrm{~V}$ | $9-37 \mathrm{~V}$ | 9－35V | 9－33V |  |
|  | Output Power | 4．95－23．1W | 5．4－25．2W | 5．85－27．3W | 6．3－29．4W | 6．75－30W | $7.2-29.6 \mathrm{~W}$ | 7．65－29．75W | 8．1－29．7W |  |

＊After setting the current via DIP switches，power off and then power on the driver to make the new current setting effective．
＊E．g．LED 3V／pcs：9－42V can power 3－14pcs LEDs in series，9－21．5V can power 3－7pcs LEDs，the max quantity of LEDs in series will be subject to the actual voltage of LEDs．

Product Size
Unit：mm


## Wiring Diagram

## Triac Connection



ELV Connection


Application Diagram of Protective Cover


1. Put the head of a screwdriver on the side of the housing to pry up both the protective cover and wire fixing board. Then remove the wire fixing board and connect to the wires as wiring diagram shows.

2. Install the wire fixing board and press it down. Then snap on the protective cover while pressing the wire fixing board with a small flat-head screwdriver

Installation Precautions


Please do not stack the products. The distance between two products should be $\geqslant 15 \mathrm{~cm}$ so as not to affect heat dissipation and the lifespan of the products.


Please not place the products on LED drivers. The distance between the product and the driver should be $\geqslant 15 \mathrm{~cm}$ so as not to affect heat dissipation and shorten the lifespan of the products.

## Relationship Diagrams



Flicker Test Form

|  | IEEE 1789 |
| :---: | :---: |
| Limit of Modulation in low risk area |  |
| Waveform frequency of Optical output | limit (\%) |
| $f \leqslant 8 \mathrm{~Hz}$ | 0.2 |
| $8 \mathrm{~Hz}<f \leqslant 90 \mathrm{~Hz}$ | $0.025 \times f$ |
| $90 \mathrm{~Hz}<f \leqslant 1250 \mathrm{~Hz}$ | $0.08 \times f$ |
| $f \rightarrow 1250 \mathrm{~Hz}$ | Exemption assessment |
| Limit of Modulation in no effect area |  |
| Waveform frequency of Optical output | limit (\%) |
| $f \leqslant 10 \mathrm{~Hz}$ | 0.1 |
| $10 \mathrm{~Hz}<\mathrm{f} \leqslant 90 \mathrm{~Hz}$ | $0.01 \times f$ |
| $90 \mathrm{~Hz}<t \leqslant 3125 \mathrm{~Hz}$ | (0.08/2.5) $\times f$ |
| $f>3125 \mathrm{~Hz}$ | Exemption assessment <br> (High frequency exemption) |

Brightness
$0.1 \%$
$10 \%$
$20 \%$
$30 \%$
$40 \%$
$50 \%$
$60 \%$
$70 \%$
$80 \%$
$90 \%$
$100 \%$


Packaging Specifications

| Model | SE-40-300-1050-G1T / SE-30-150-900-G1T |
| :--- | :--- |
| Carton Dimensions | $320 \times 275 \times 106 \mathrm{~mm}(\mathrm{~L} \times \mathrm{W} \times \mathrm{H})$ |
| Quantity | 20 PCS/Layer; 2 Layers/Carton; 40 PCS/Carton |
| Weight | $0.163 \mathrm{~kg} /$ PC; $7.32 \mathrm{~kg} /$ Carton |

Packaging Image


## Transportation and Storage

1. Transportation

Products can be shipped via vehicles, boats and planes.
During transportation, products should be protected from rain and sun. Please avoid severe shock and vibration during the loading and unloading process,
2. Storage

The storage conditions should comply with the Class I Environmental Standards. The products that have been stored for more than six months are recommended to be re-inspected and can be used only after they have been qualified

## Attentions

- This product must be installed and adjusted by a qualified professional.
- This product is non-waterproof (special models excepted). Please avoid the sun and rain. When installed outdoors, please ensure it is mounted in a water proof enclosure
- Good heat dissipation will extend the life the product. Please install the product in a environment with good ventilation.
- When you install this product, please avoid being near a large area of metal objects or stacking them to prevent signal interference.
- Please keep the product away from a intense magnetic field, a high pressure area or a place where lightning is easy to occur.
- Please check whether the working voltage used complies with the parameter requirements of the product.
- Before you power on the product, please make sure all the wiring is correct in case of incorrect connection that may cause a short circuit and damage the components, or trigger a accident.
- If a fault occurs, please do not attempt to fix the product by yourself. If you have any question, please contact the supplier
* This manual is subject to changes without further notice. Product functions depend on the goods. Please feel free to contact our official distributors if you have any question.


## Warranty Agreement

- Warranty periods from the date of delivery: 5 years.
- Free repair or replacement services for quality problems are provided within warranty periods.

Warranty exclusions below:

- Beyond warranty periods.
- Any artificial damage caused by high voltage, overload, or improper operations.
- Products with severe physical damage.
- Damage caused by natural disasters and force majeure.
- Warranty labels and barcodes have been damaged.
- No any contract signed by LTECH.

1. Repair or replacement provided is the only remedy for customers. LTECH is not liable for any incidental or consequential damage unless it is within the law. 2. LTECH has the right to amend or adjust the terms of this warranty, and release in written form shall prevail.

## Update Log

| Version | Updated Time |  | Update Content |
| :---: | :---: | :---: | :---: | Updated by | Liu Weili |
| :---: |
| A0 |

