

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™ dimming technology allows continuous and flicker-free images under high-speed photography.
- Dimming from 0~100%, 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 | / || / ||| indoor light fixtures.
- Up to 50,000-hour life time.
- 5-year warranty (Rubycon capacitor).



Flicker Free IEEE 1789

Dimmable: 0.01% - 100%





ELV













Technical Specs

Model		SE-40-	300-1050-G1T		SE-30-150-900-G1T			
	Output Type	Consta	nt Current					
Features	Dimming Interface	Triac/ELV						
	Output Feature	Isolatio	n					
	Protection Grade	IP20						
	Insulation Grade	Class I	(Suitable for class I/ II	/III light fixtures)				
	Output Voltage	9-42Vdc						
	Maximum output voltage	≤55V						
	Output Current Range	300-1050mA 150-900mA						
	Output Power Range	2.7W-40W 1.35W-30W						
OUTPUT	Dimming Range	0~100%, down to 0.01%						
	LF Current Ripple(<120Hz)	<3%						
	Current Accuracy	±5%						
	Ripple & Noise	±5% ≤5V						
	PWM Frequency	3600Hz						
	DC Voltage Range	200-280Vdc						
	Input Voltage	220-240Vac						
	Frequency	50/60Hz						
	Input Current							
INPUT	Power Factor		5/230Vac, at full load					
	THD		0%/230Vac, at full load					
	Efficiency (Typ.)	>88%@			>86%@750mA			
	Inrush Current	Cold start 16A(Test twidth=90us tested under 50% Ipeak)/230Vac						
	Anti Surge	L-N: 2kV						
	Leakage Current	<0.5mA	/230Vac					
	Working Temperature	ta: -20	~ 45°C tc: 90°C					
	Working Humidity	20 ~ 95	%RH, non-condensing					
ENVIRONMENT	Storage Temperature/Humidity	-40 ~ 80°C/10~95%RH						
	Temperature Coefficient	±0.03%/°C [-20~45°C]						
	Vibration	10~500Hz, 2G 12min/1cycle, 72 min for X, Y and Z axes respectively						
	Overload Protection	Shut down the output and recover automatically once it exceeds 1.02-1.35 times of the rated power						
PROTECTION	Overheat Protection	Intelligently adjust or turn off the current output if the PCB temperature \$110°C. When the PCB temperature <90°C, automatically recover normal output						
	Short Circuit Protection	When	hort circuit occurs, shu	it down the output and recover automatically	/			
	Withstand Voltage	I/P-0/	P: 3750Vac					
	Insulation Resistance	I/P-0/	P: 100MΩ/500VDC/25°	C/70%RH				
		ccc	CCC China GB19510.1, GB19510.14					
		TUV	Germany	EN61347-1, EN61347-2-13, EN62493				
		CE	European Union	EN61347-1, EN61347-2-13, EN62384				
			Korea	KC61347-1, KC61347-2-13				
		KC		NC01547-1, NC01547-2-15				
	Safety Standards	RCM	Australia	AS61347-1, AS61347-2-13				
	Safety Standards			·				
SAFETY	Safety Standards	RCM	Australia Europe	AS61347-1, AS61347-2-13				
&	Safety Standards	RCM ENEC CB	Australia Europe CB Member States	AS61347-1, AS61347-2-13 EN61347-1, EN61347-2-13, EN62384 IEC61347-1, IEC61347-2-13				
	Safety Standards	RCM ENEC CB EAC	Australia Europe CB Member States Russia	AS61347-1, AS61347-2-13 EN61347-1, EN61347-2-13, EN62384 IEC61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13				
&	Safety Standards	RCM ENEC CB EAC BIS	Australia Europe CB Member States Russia India	AS61347-1, AS61347-2-13 EN61347-1, EN61347-2-13, EN62384 IEC61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13 IS 15885(PART 2/SEC 13)				
&	Safety Standards	RCM ENEC CB EAC BIS CCC	Australia Europe CB Member States Russia India China	AS61347-1, AS61347-2-13 EN61347-1, EN61347-2-13, EN62384 IEC61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13 IS 15885[PART 2/SEC 13] GB/T17743, GB17625.1	61547			
&		RCM ENEC CB EAC BIS CCC CE	Australia Europe CB Member States Russia India China European Union	AS61347-1, AS61347-2-13 EN61347-1, EN61347-2-13, EN62384 IEC61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13 IS 15885[PART 2/SEC 13] GB/T17743, GB17625.1 EN55015, EN61000-3-2, EN61000-3-3, En	61547			
&	Safety Standards EMC Emission	RCM ENEC CB EAC BIS CCC CE KC	Australia Europe CB Member States Russia India China European Union Korea	AS61347-1, AS61347-2-13 EN61347-1, EN61347-2-13, EN62384 IEC61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13 IS 15885[PART 2/SEC 13] GB/T17743, GB17625.1 EN55015, EN61000-3-2, EN61000-3-3, En				
&		RCM ENEC CB EAC BIS CCC CE KC RCM	Australia Europe CB Member States Russia India China European Union Korea Australia	AS61347-1, AS61347-2-13 EN61347-1, EN61347-2-13, EN62384 IEC61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13 IS 15885[PART 2/SEC 13] GB/T17743, GB17625.1 EN55015, EN61000-3-2, EN61000-3-3, En KN15, KN61547 EN55015, EN61000-3-2, EN61000-3-3, EN	161547			
&	EMC Emission	RCM ENEC CB EAC BIS CCC CE KC RCM EAC	Australia Europe CB Member States Russia India China European Union Korea Australia Russia	AS61347-1, AS61347-2-13 EN61347-1, EN61347-2-13, EN62384 IEC61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13 IS 15885[PART 2/SEC 13] GB/T17743, GB17625.1 EN55015, EN61000-3-2, EN61000-3-3, EN KN15, KN61547 EN55015, EN61000-3-2, EN61000-3-3, EN IEC 62493, IEC 61547, EH 55015, IEC 6100	161547			
&		RCM ENEC CB EAC BIS CCC CE KC RCM EAC	Australia Europe CB Member States Russia India China European Union Korea Australia Russia 0-4-2,3,4,5,6,8,11, EN6	AS61347-1, AS61347-2-13 EN61347-1, EN61347-2-13, EN62384 IEC61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13 IS 15885[PART 2/SEC 13] GB/T17743, GB17625.1 EN55015, EN61000-3-2, EN61000-3-3, En KN15, KN61547 EN55015, EN61000-3-2, EN61000-3-3, EN IEC 62493, IEC 61547, EH 55015, IEC 6100	161547			
&	EMC Emission EMC Immunity	RCM ENEC CB EAC BIS CCC CE KC RCM EAC EN610	Australia Europe CB Member States Russia India China European Union Korea Australia Russia 0-4-2,3,4,5,6,8,11, EN6 y power consumption	AS61347-1, AS61347-2-13 EN61347-1, EN61347-2-13, EN62384 IEC61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13 IS 15885[PART 2/SEC 13] GB/T17743, GB17625.1 EN55015, EN61000-3-2, EN61000-3-3, EnKN15, KN61547 EN55015, EN61000-3-2, EN61000-3-3, ENIEC 62493, IEC 61547, EH 55015, IEC 6100	l61547 0-3-2, IEC 61000-3-3			
& EMC	EMC Emission	RCM ENEC CB EAC BIS CCC CE KC RCM EAC EN6100 Standb	Australia Europe CB Member States Russia India China European Union Korea Australia Russia 0-4-2,3,4,5,6,8,11, EN6 ty power consumption	AS61347-1, AS61347-2-13 EN61347-1, EN61347-2-13, EN62384 IEC61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13 IS 15885[PART 2/SEC 13] GB/T17743, GB17625.1 EN55015, EN61000-3-2, EN61000-3-3, EnKN15, KN61547 EN55015, EN61000-3-2, EN61000-3-3, ENIEC 62493, IEC 61547, EH 55015, IEC 6100	l61547 0-3-2, IEC 61000-3-3			
&	EMC Emission EMC Immunity Power Consumption	RCM ENEC CB EAC BIS CCC CE KC RCM EAC EN610 Standb Netwood No-loa	Australia Europe CB Member States Russia India China European Union Korea Australia Russia 0-4-2,3,4,5,6,8,11, EN6 by power consumption ked standby d power consumption	AS61347-1, AS61347-2-13 EN61347-1, EN61347-2-13, EN62384 IEC61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13 IS 15885(PART 2/SEC 13) GB/T17743, GB17625.1 EN55015, EN61000-3-2, EN61000-3-3, En KN15, KN61547 EN55015, EN61000-3-2, EN61000-3-3, EN IEC 62493, IEC 61547, EH 55015, IEC 6100	l61547 0-3-2, IEC 61000-3-3 cut signal, no power consumption)			
& EMC	EMC Emission EMC Immunity	RCM ENEC CB EAC BIS CCC CE KC RCM EAC EN610 Standb Netwoo	Australia Europe CB Member States Russia India China European Union Korea Australia Russia 0-4-2,3,4,5,6,8,11, EN6 by power consumption ked standby d power consumption 789	AS61347-1, AS61347-2-13 EN61347-1, EN61347-2-13, EN62384 IEC61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13 IS 15885(PART 2/SEC 13) GB/T17743, GB17625.1 EN55015, EN61000-3-2, EN61000-3-3, En KN15, KN61547 EN55015, EN61000-3-2, EN61000-3-3, EN IEC 62493, IEC 61547, EH 55015, IEC 6100 1547 No standby mode No networked standby mode (No Phase-Without no-load mode Meet IEEE 1789 standard/High frequency	l61547 0-3-2, IEC 61000-3-3 cut signal, no power consumption)			
& EMC	EMC Emission EMC Immunity Power Consumption	RCM ENEC CB EAC BIS CCC CE KC RCM EAC EN610 Standth Netwool No-loa IEEE 1' CIE SV	Australia Europe CB Member States Russia India China European Union Korea Australia Russia 0-4-2,3,4,5,6,8,11, EN6 by power consumption ked standby d power consumption 789	AS61347-1, AS61347-2-13 EN61347-1, EN61347-2-13, EN62384 IEC61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13 IS 15885(PART 2/SEC 13) GB/T17743, GB17625.1 EN55015, EN61000-3-2, EN61000-3-3, EnKN15, KN61547 EN55015, EN61000-3-2, EN61000-3-3, ENIEC 62493, IEC 61547, EH 55015, IEC 6100 1547 No standby mode No networked standby mode (No Phase-Without no-load mode Meet IEEE 1789 standard/High frequence Pst LM≤1.0, SVM≤0.4	l61547 0-3-2, IEC 61000-3-3 cut signal, no power consumption)			
& EMC	EMC Emission EMC Immunity Power Consumption Flicker/Stroboscopic Effect	RCM ENEC CB EAC BIS CCC CE KC RCM EAC EN610 Standb Netwoo	Australia Europe CB Member States Russia India China European Union Korea Australia Russia 0-4-2,3,4,5,6,8,11, EN6 yy power consumption ked standby d power consumption 789 M factor	AS61347-1, AS61347-2-13 EN61347-1, EN61347-2-13, EN62384 IEC61347-1, IEC61347-2-13 IEC61347-1, IEC61347-2-13 IS 15885(PART 2/SEC 13) GB/T17743, GB17625.1 EN55015, EN61000-3-2, EN61000-3-3, En KN15, KN61547 EN55015, EN61000-3-2, EN61000-3-3, EN IEC 62493, IEC 61547, EH 55015, IEC 6100 1547 No standby mode No networked standby mode (No Phase-Without no-load mode Meet IEEE 1789 standard/High frequency	l61547 0-3-2, IEC 61000-3-3 cut signal, no power consumption)			





LED Current Selection

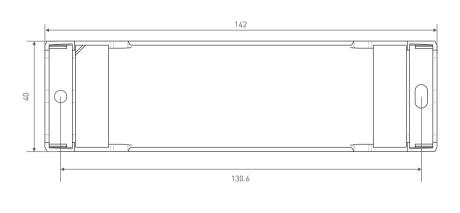


SE-40-300-1050-G1T	DIP Switch	TTTT	1117	1171	11 T T	TITI	1717	1771	ATTT	
	Output Current	300mA	350mA	400mA	450mA	500mA	550mA	600mA	650mA	T
	Output Voltage	9-42V	9-42V	9-42V	9-42V	9-42V	9-42V	9-42V	9-42V	ON
	Output Power	2.7-12.6W	3.15-14.7W	3.6-16.8W	4.05-18.9W	4.5-21W	4.95-23.1W	5.4-25.2W	5.85-27.3W	
	DIP Switch	$\top\perp\perp\perp$	TILT	TITI	TATT	TTIL	TTAT	TTTL	TTTT	⊥ OFF
	Output Current	700mA	750mA	800mA	850mA	900mA	950mA	1000mA	1050mA	011
	Output Voltage	9-42V	9-42V	9-42V	9-42V	9-42V	9-42V	9-40V	9-38V	
	Output Power	6.3-29.4W	6.75-31.5W	7.2-33.6W	7.65-35.7W	8.1-37.8W	8.55-39.9W	9-40W	9.45-39.9W	
	DIP Switch	$\top\ \top\ \top\ \top$	1117	1171	44 T T	1711	1717	ATTA	ATTT	
	Output Current	150mA	200mA	250mA	300mA	350mA	400mA	450mA	500mA	T
	Output Voltage	9-42V	9-42V	9-42V	9-42V	9-42V	9-42V	9-42V	9-42V	ON
SE-30-150-900-G1T	Output Power	1.35-6.3W	1.8-8.4W	2.25-10.5W	2.7-12.6W	3.15-14.7W	3.6-16.8W	4.05-18.9W	4.5-21W	
SE-30-130-700-G11	DIP Switch	$T\perp\perp\perp$	TAAT	TITL	TATT	TTLL	TTAT	TTTA	TTTT	≟ 0FF
	Output Current	550mA	600mA	650mA	700mA	750mA	800mA	850mA	900mA	0.1
	Output Voltage	9-42V	9-42V	9-42V	9-42V	9-40V	9-37V	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	7.2-29.6W	7.65-29.75W	8.1-29.7W	

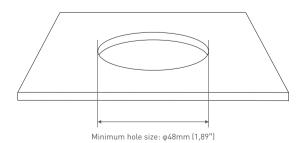
^{*} After setting the current via DIP switches, power off and then power on the driver to make the new current setting effective.

Product Size

Unit: mm



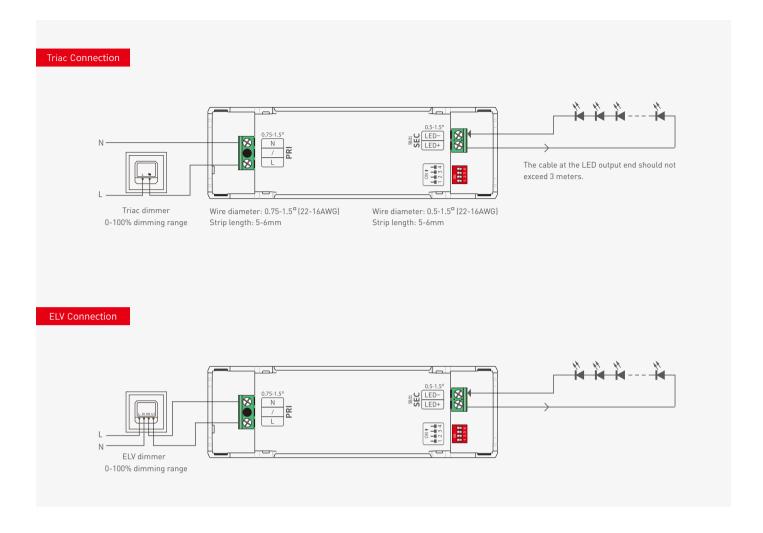




[🗱] E.g. LED 3V/pcs: 9-42V can power 3-14pcs LEDs in series, 9-21.5V can power 3-7pcs LEDs, the max quantity of LEDs in series will be subject to the actual voltage of LEDs.



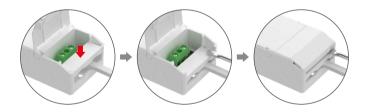
Wiring Diagram



Application Diagram of Protective Cover

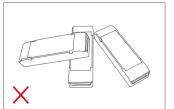


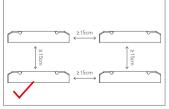
 Put the head of a screwdriver on the side of the housing to pry up both the protective cover and wire fixing board. Then remove the wire fixing board and connect to the wires as wiring diagram shows.



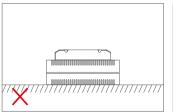
Install the wire fixing board and press it down. Then snap on the protective cover while pressing the wire fixing board with a small flat-head screwdriver

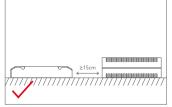
Installation Precautions





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

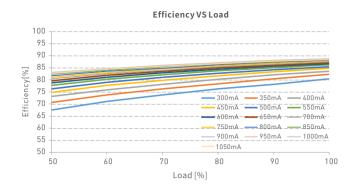


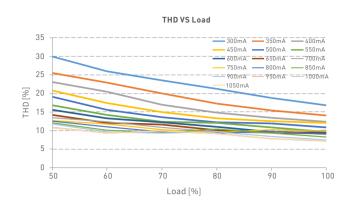


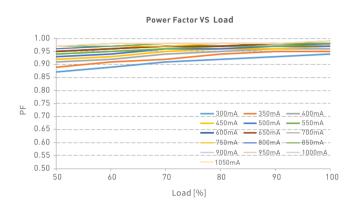
Please not place the products on LED drivers. The distance between the product and the driver should be \geqslant 15cm so as not to affect heat dissipation and shorten the lifespan of the products.

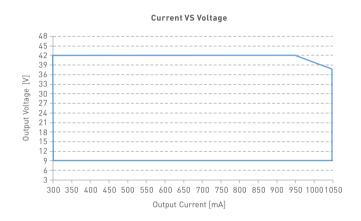


Relationship Diagrams

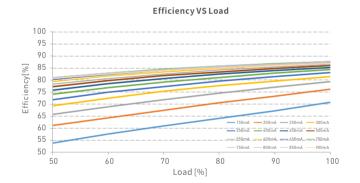


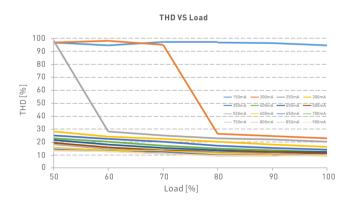


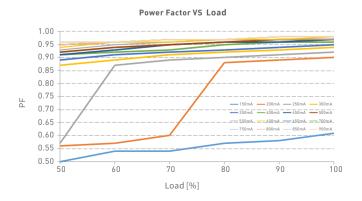


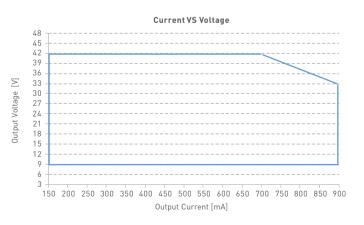


SE-40-300-1050-G1T









SE-30-150-900-G1T

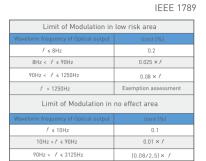
Modulation Area Diagram

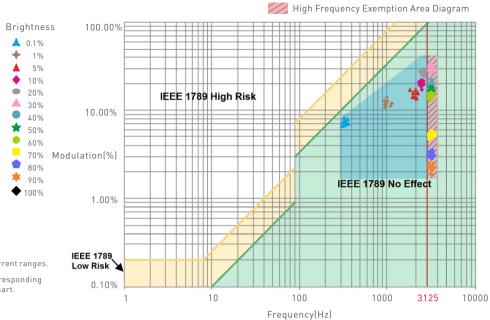


LTECH

Flicker Test Form

f > 3125Hz





Marks in the right chart were tested results of different current ranges.

The output frequeny is 0Hz in 100% brightness and its corresponding modulation is 0%, which could not be shown in the right chart.

Packaging Specifications

Model	SE-40-300-1050-G1T / SE-30-150-900-G1T
Carton Dimensions	320×275×106mm(L×W×H)
Quantity	20 PCS/Layer; 2 Layers/Carton; 40 PCS/Carton
Weight	0.163 kg/PC; 7.32 kg/Carton

Packaging Image



Inner Packaging Box



Carton Packaging



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.
- $\bullet \quad \text{Please check whether the working voltage used complies with the parameter requirements of the product.}\\$
- 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
Α0	2022.08.29	Original version	Liu Weili