

LED Driver (Constant Current)

- The housing is made from V0 flame retardant PC materials from SAMSUNG/COVESTRO.
- Ultra-small, thin and light screwless end cap.
- High performance, high efficiency, low THD.
- Innovative thermal management technology intelligently protects the life of the LED driver.
- Overheat, overvoltage, overload, short circuit protection and automatic recovery.
- Suitable for Class | / || / || indoor light fixtures.
- Indoor office lighting, decorative lighting and commercial lighting.
- 5-year warranty.



Flicker-Free IEEE 1789



















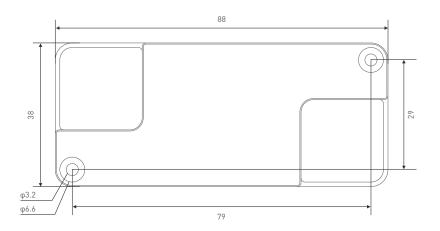
Technical Specs

Model		SN-15-350)-G1N SN-15-	300-G1N	SN-15-250-G1N	SN-15-220-G1N	SN-15-200-G1N	SN-15-180-G1N	SN-15-150-G1N		
	Output Type	Constant C	Current								
Features	Output Feature	Isolation									
	Protection Grade	IP20									
	Insulation Grade	Class II (Su	uitable for class I/	II /III light	fixtures)						
OUTPUT	Output Voltage	9-42Vdc									
	Maximum output voltage	≤50Vdc									
	Output Current	350mA	300mA		250mA	220mA	200mA	180mA	150mA		
	Output Power Range	3.15W-14.7		2.6W	2.25W-10.5W	1.98W-9.24W	1.8W-8.4W	1.62W-7.56W	1.35W-6.3W		
	Current Accuracy	±5%									
	PWM Frequency	Non dimming									
	DC Voltage Range	200-280Vdc									
	Input Voltage	220-240Vac									
	Frequency	50/60Hz									
	Input Current	<0.09A	≤0.08A		<0.07A <0.06A <0.055A <0.05A <0.045A						
		PF>0.95	PF>0.9	5	PF>0.9	PF>0.9	PF>0.9	PF>0.9	PF>0.9		
	Power Factor	at full load			at full load	at full load	at full load	at full load	at full load		
INPUT	THD	TUD -100/	TUD -1	10/	THD<15%	THD<15%	THD<15%	THD<15%	THD<15%		
		THD<10% THD<10% at full load at full loa			at full load	at full load	at full load	at full load	at full load		
		≥87%	>87%		≥86%	≥86%	≥86%	≥85%	≥84%		
	Efficiency (Typ.)	≥87% at full load	- 1	oad	≥86% at full load	≥86% at full load	≥86% at full load	≥85% at full load	≥84% at full load		
	Inrush Current						31.1011.1000	31.101.1000	31.411.000		
		L-N: 1KV	3A(Test twidth=30	is tested u	nder 50% [peak]/230V	ас					
	Anti Surge	Max. 0.5m	. ^								
	Leakage Current										
	Working Temperature	ta: -20 ~ 50°C tc: 85°C									
NIVIDONIMENT	Working Humidity	20 ~ 95%RH, non-condensing									
ENVIRONMENT			/10~95%RH								
	Temperature Coefficient	±0.03%/°C									
	Vibration	10~500Hz, 2G 12min/1cycle, 72 min for X, Y and Z axes respectively									
	Overload Protection	When the output load is > 43.5V, the output current and output power decrease gradually and can be recovered automatically.									
PROTECTION		Intelligently adjust or turn off the current output if the PCB temperature \$130°C. intelligently adjust the current output or close, and automatically reco									
	Short Circuit Protection	When short circuit occurs, shut down the output and recover automatically									
	Withstand Voltage	I/P-0/P:3									
	Insulation Resistance	I/P-0/P: 1 Insulation Resistance 00MΩ/500VDC/25°C/70%RH									
	Safety Standards		China		10.1, GB19510.14						
			Germany		EN61347-1, EN61347-2-13, EN62493						
			CB Member States IEC61347-1, IEC61347-2-13								
			European Union		EN61347-1, EN61347-2-13, EN62384						
			Korea		KC61347-1, KC61347-2-13						
			Russia	IEC61347-1, IEC61347-2-13							
SAFETY			Australia								
& EMC		ENEC Europe EN61347-1, EN61347-2-13, EN62384									
EMC		UKCA Britain BS EN 61347-1, BS EN 61347-2-13, BS EN 62493									
		BIS I	BIS India IS 15885 (PART 2/SEC 13)								
	EMC Emission	CCC	China	GB/T17	7743, GB17625.1						
		CE I	European Union	EN550	15, EN61000-3-2, EN	61000-3-3, EN61547					
		KC I	Korea	KN15, KN61547							
		EAC I	Russia	IEC624	IEC62493, IEC61547, EH55015						
		RCM .	Australia	EN550	15, EN61000-3-2, EN	61000-3-3, EN61547					
		UKCA I	Britain	BS EN	IEC 55015, BS EN IEC	61000-3-2, BS EN 61	000-3-3, BS EN 6154	7			
	EMC Immunity	EN61000-4	4-2,3,4,5,6,8,11,	N61547	161547						
	Power Consumption	Standby power consumption No standby mode									
		Networked	Networked standby No networked standby mode						<u> </u>		
	Power Consumption	No-load power consumption ≤0.			€0.3W						
F-2	Power Consumption	No-load po	ower consumption	40.011		Meet IEEE 1789 standard/High frequency exemption level					
ErP	,	No-load po	ower consumption		EEE 1789 standard/Hi	gh frequency exempt	ion level				
ErP	Flicker/Stroboscopic Effect		ower consumption	Meet IE	EEE 1789 standard/Hi <1.0, SVM<0.4	gh frequency exempt	ion level				
ErP	,	IEEE 1789		Meet IE	≤1.0, SVM≤0.4	gh frequency exempt	ion level				
ErP	Flicker/Stroboscopic Effect	IEEE 1789 CIE SVM		Meet IE Pst LM	≤1.0, SVM≤0.4	gh frequency exempt	ion level				

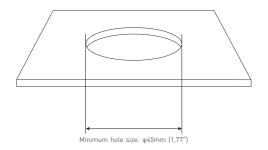


Product Size

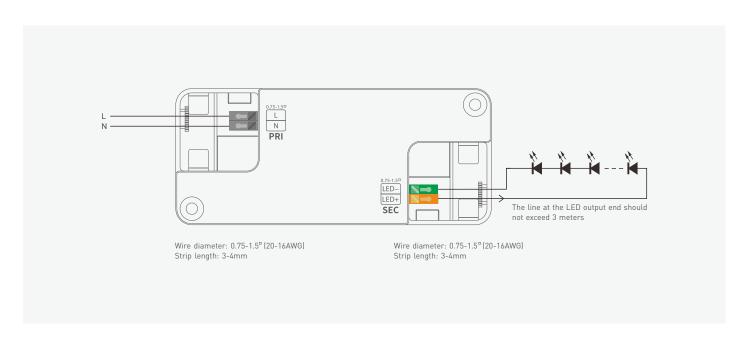
Unit: mm







Wiring Diagram



Protective Housing Application Diagram

Crimping cover buckle



Use a screwdriver to wire according to the wiring diagram.

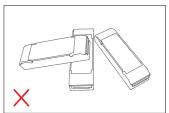
Snap together the terminals on both sides with protective covers, nd press down until it is flat with the housing.

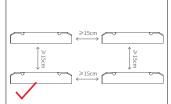
Removal of crimping cover



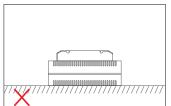
Pry the protective cover at the bottom of the housing left/right with

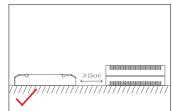
Installation Precautions





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

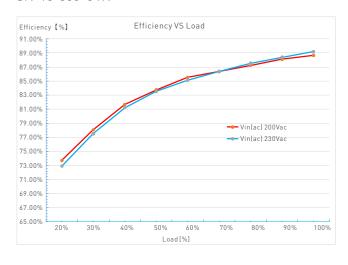


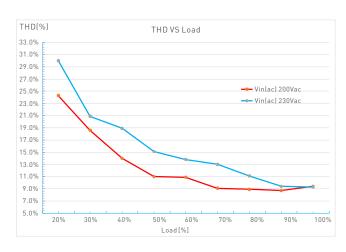


Please not place the products on LED drivers. The distance between the product and the driver should be \geqslant 15cm so as not to affect heat dissipation and shorten the lifespan of the products.

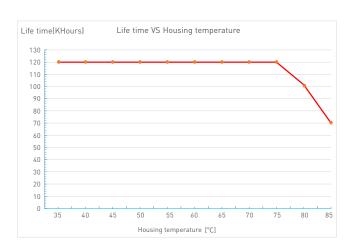
Relationship Diagrams

SN-15-350-G1N



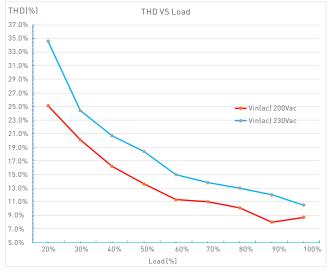




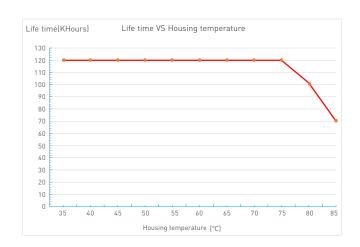


SN-15-300-G1N

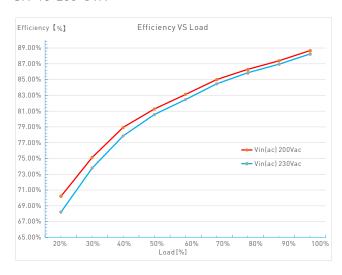


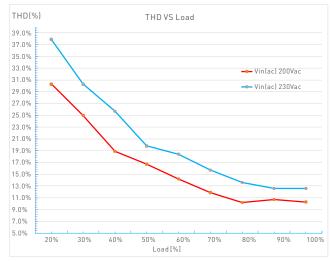


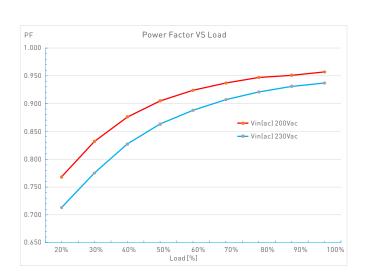


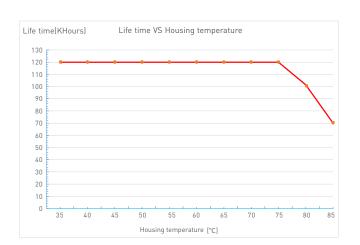


SN-15-250-G1N



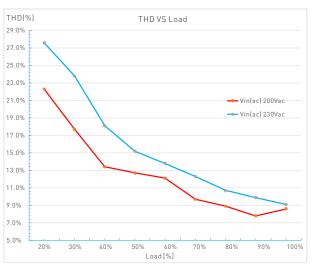


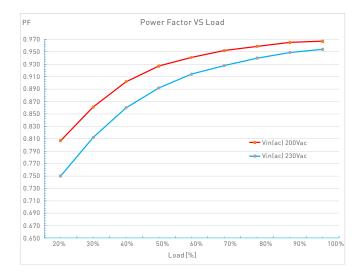


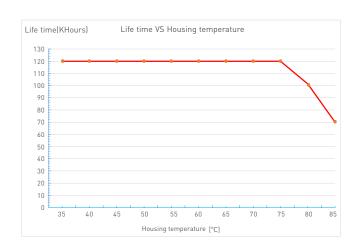


SN-15-220-G1N



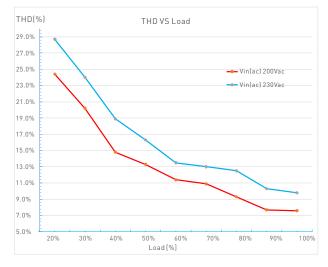




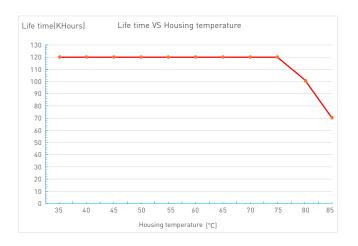


SN-15-200-G1N





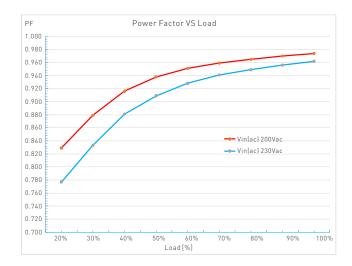


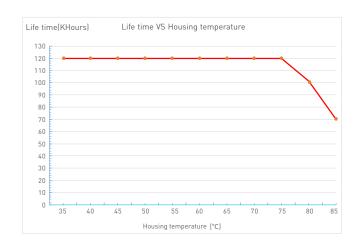


SN-15-180-G1N

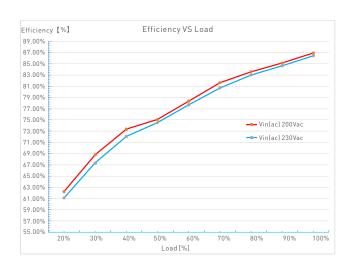


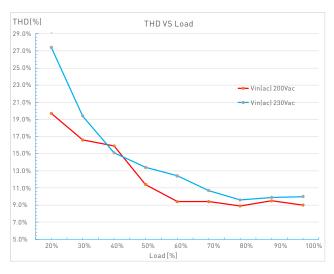




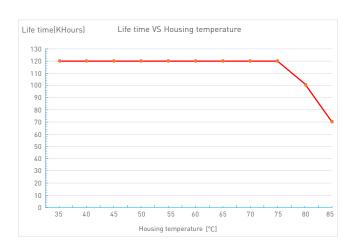


SN-15-150-G1N



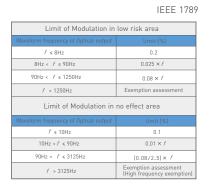


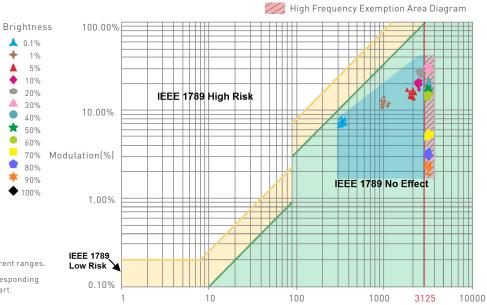






Flicker Test Form





Frequency(Hz)

Modulation Area Diagram

 $\label{thm:marks} \mbox{Marks in the right chart were tested results of different current ranges.}$

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	SN-15-350-G1N / SN-15-300-G1N / SN-15-250-G1N / SN-15-220-G1N SN-15-200-G1N / SN-15-180-G1N / SN-15-150-G1N				
Carton Dimensions	365×200×190mm(L×W×H)				
Quantity	20 PCS/Layer; 5 Layers/Carton; 100 PCS/Carton				
Weight	0.055 kg/PC; 6.3 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.
- $\bullet \quad \mathsf{Good} \ \mathsf{heat} \ \mathsf{dissipation} \ \mathsf{will} \ \mathsf{extend} \ \mathsf{the} \ \mathsf{life} \ \mathsf{the} \ \mathsf{product}. \ \mathsf{Please} \ \mathsf{install} \ \mathsf{the} \ \mathsf{product} \ \mathsf{in} \ \mathsf{a} \ \mathsf{environment} \ \mathsf{with} \ \mathsf{good} \ \mathsf{ventilation}.$
- 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.
- $2.\ \mathsf{LTECH}\ \mathsf{has}\ \mathsf{the}\ \mathsf{right}\ \mathsf{to}\ \mathsf{amend}\ \mathsf{or}\ \mathsf{adjust}\ \mathsf{the}\ \mathsf{terms}\ \mathsf{of}\ \mathsf{this}\ \mathsf{warranty},\ \mathsf{and}\ \mathsf{release}\ \mathsf{in}\ \mathsf{written}\ \mathsf{form}\ \mathsf{shall}\ \mathsf{prevail}.$



Update Log

Version	Updated Time	Update Content	Updated by
Α0	2023.01.13	Original version	Liu Weili

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