

### LED Driver (Constant Current)

- The housing is made from V0 flame retardant PC materials.
- Ultra-small, thin and light screwless end cap.
- $\bullet\,$  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
- Suitable for Class I / II / III indoor light fixtures.
- Indoor office lighting, decorative lighting and commercial lighting.
- 5-year warranty.



### Flicker-Free IEEE 1789























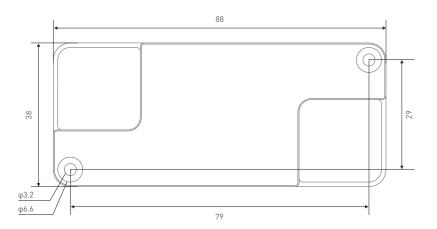
# **Technical Specs**

Model		SN-15-350-0	G1N SN-15-30	00-G1N	SN-15-250-G1N	SN-15-220-G1N	SN-15-200-G1N	SN-15-180-G1N	SN-15-150-G1N			
	Output Type	Constant Cui	rrent			•						
Features	Output Feature	Isolation										
	Protection Grade	IP20										
	Insulation Grade	Class II (Suit	able for class I/ II	/III light f	ixtures)							
ОИТРИТ	Output Voltage	9-42Vdc										
	Maximum output voltage	\$50Vdc										
	Output Current	350mA	300mA		250mA	220mA	200mA	180mA	150mA			
	Output Power Range	3.15W-14.7W		5W	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										
INPUT	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>0.95		PF>0.9	PF>0.9	PF>0.9	PF>0.9	PF>0.9			
	Power Factor	at full load at full		ad	at full load	at full load	at full load	at full load	at full load			
	THD	THD<10% THD<10%		,	THD<15%	THD<15%	THD<15%	THD<15%	THD<15%			
		at full load at full loa			at full load	at full load	at full load	at full load	at full load			
					≥86%	≥86%	≥86%	≥85%	≥84%			
	Efficiency (Typ.)	≥87% ≥87% at full load at full load		ad	at full load	≥86% at full load	≥86% at full load	≥85% at full load	≥84% at full load			
	Inrush Current						31.011.000	31.01.1000	31.411.000			
	Anti Surge	Cold start 3A(Test twidth=30us tested under 50%   Ipeak)/230Vac   L-N: 1KV										
		Max. 0.5mA										
	Leakage Current Working Temperature											
		ta: -20 ~ 50°C tc: 85°C										
NVIDONMENT	Working Humidity	20 ~ 95%RH, non-condensing										
ENVIRONMENT	, , , , , , , , , , , , , , , , , , ,	-40 ~ 80°C/1										
	Temperature Coefficient	±0.03%/°C(0-50°C)										
	Vibration				(, Y and Z axes respe							
	Overload Protection	When the output load is > 43.5V, the output current and output power decrease gradually and can be recovered automatically.										
PROTECTION	Overheat 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: 3750Vac										
	Insulation Resistance	I/P-0/P: 1 Insulation Resistance 00MΩ/500VDC/25°C/70%RH										
	Safety Standards		nina	GB19510.1, GB19510.14								
			ermany	EN61347-1, EN61347-2-13, EN62493								
			3 Member States									
			ropean Union	EN61347-1, EN61347-2-13, EN62384								
			orea .	KC61347-1, KC61347-2-13								
			ıssia	IEC61347-1, IEC61347-2-13								
SAFETY			ıstralia		47-1, AS 61347-2-13	-11/000/						
& EMC			Europe EN61347-1, EN61347-2-13, EN62384									
-1110			UKCA Britain BS EN 61347-1, BS EN 61347-2-13, BS EN 62493									
			BIS India IS 15885 [PART 2/SEC 13]									
	EMC Emission		CCC China GB/T17743, GB17625.1									
			ropean Union		5, EN61000-3-2, EN	51000-3-3, EN61547						
			orea	KN15, KN61547								
			ıssia	IEC62493, IEC61547, EH55015								
			ustralia 		5, EN61000-3-2, EN			_				
		UKCA Britain		BS EN IEC 55015, BS EN IEC 61000-3-2, BS EN 61000-3-3, BS EN 61547								
	EMC Immunity		2,3,4,5,6,8,11, EN									
ErP	Power Consumption	Standby power consumption No standby mode										
		Networked standby No networked standby mode										
		No-load power consumption		<0.3W								
-	Flicker/Stroboscopic Effect	IEEE 1789 Meet IEEE 1789 standard/High frequency exemption level										
		CIESVM		Pst LMs	Pst LM≤1.0, SVM≤0.4							
	DF	Phase factor		DF>0.9								
	Weight(N.W.)	55g±10g										
OTHERS	Weight(IV.VV.)											

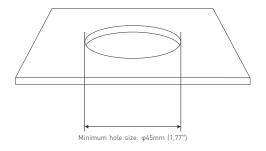


## **Product Size**

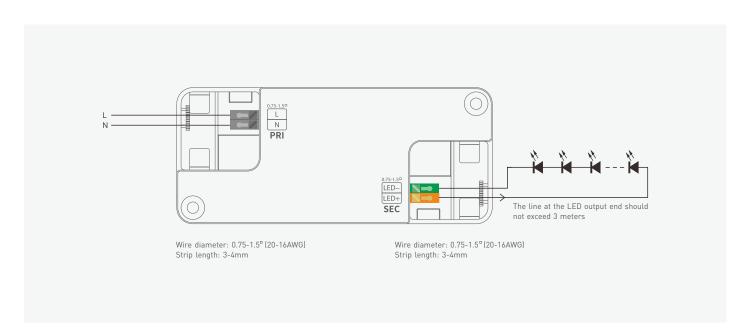
Unit: mm







# Wiring Diagram



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# Protective Housing Application Diagram

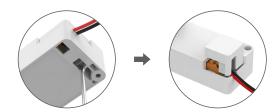
### Crimping cover buckle



Use a screwdriver to wire according to the wiring diagram.

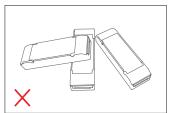
Snap together the terminals on both sides with protective covers, nd press down until it is flat with the housing.

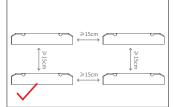
#### Removal of crimping cover



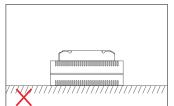
Pry the protective cover at the bottom of the housing left/right with

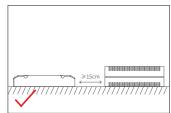
### Installation Precautions





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.

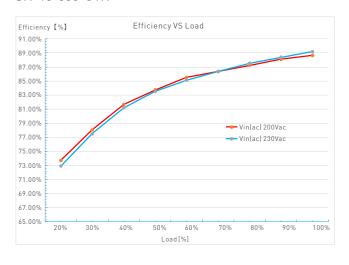




Please not place the products on LED drivers. The distance between the product and the driver should be  $\geqslant 15 \text{cm}$  so as not to affect heat dissipation and shorten the lifespan of the products.

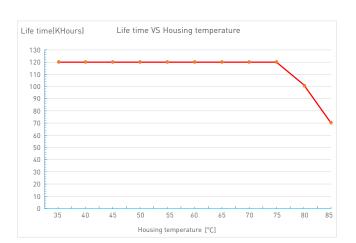
# Relationship Diagrams

## SN-15-350-G1N



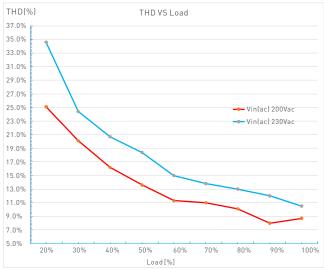


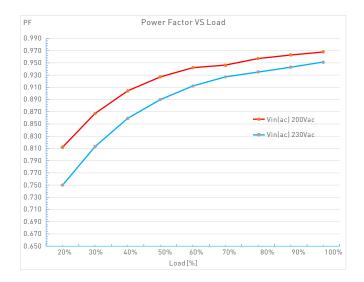


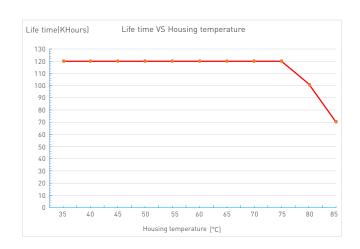


#### SN-15-300-G1N

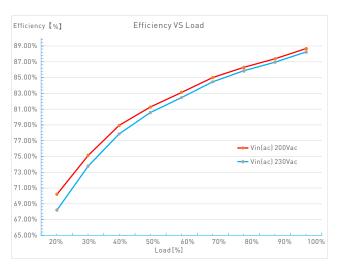


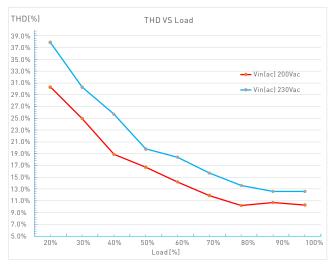




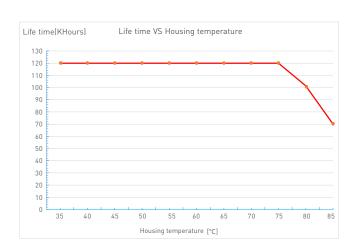


## SN-15-250-G1N

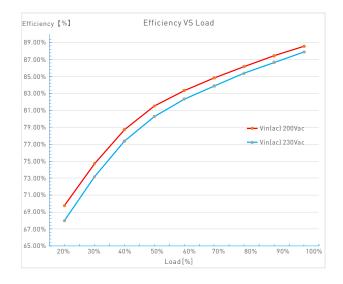


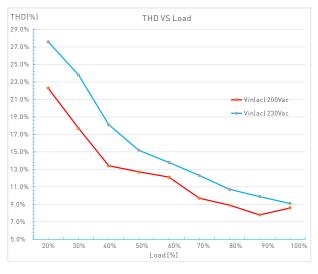


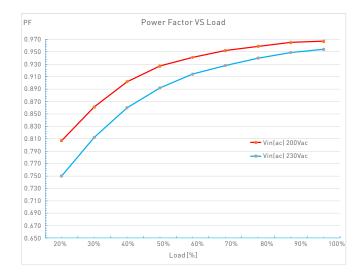


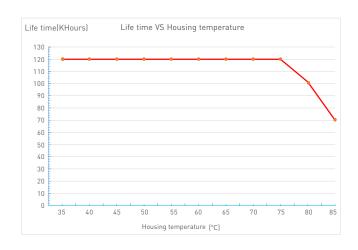


#### SN-15-220-G1N

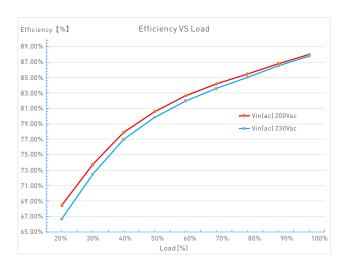


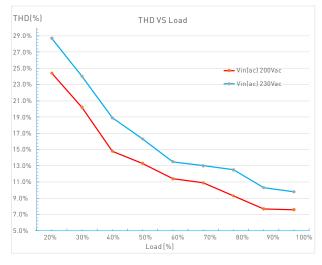


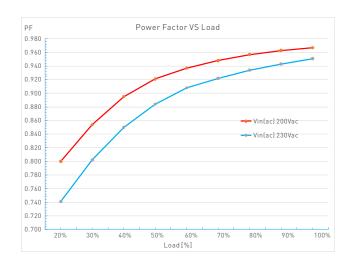


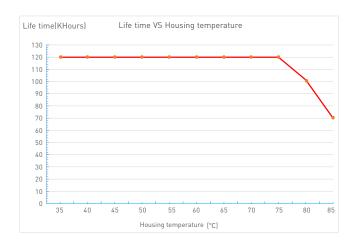


### SN-15-200-G1N







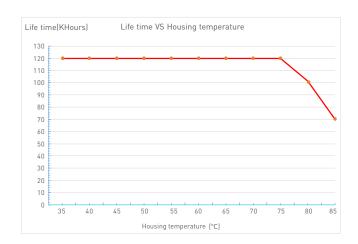


#### SN-15-180-G1N



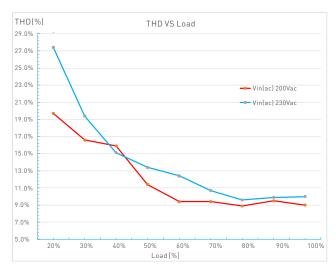


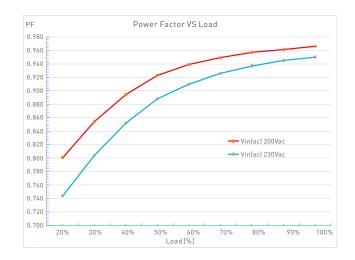


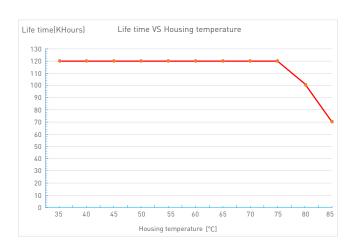


### SN-15-150-G1N



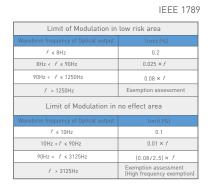


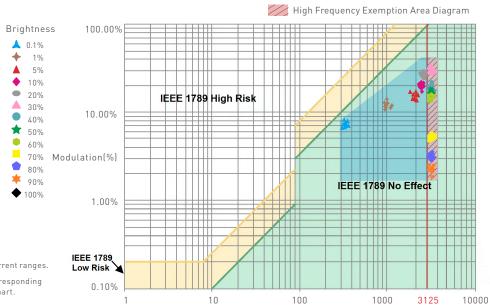






## Flicker Test Form





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.
- 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.
- $\bullet \quad \text{Please keep the product away from a intense magnetic field, a high pressure area or a place where lightning is easy to occur.} \\$
- $\bullet \quad \text{Please check whether the working voltage used complies with the parameter requirements of the product.}\\$
- 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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