

#### LED Driver (Constant Current)

- The housing is made from VO flame retardant PC materials.
- 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 I / II / III indoor light fixtures.
- Indoor office lighting, decorative lighting and commercial lighting.
- 5-year warranty.



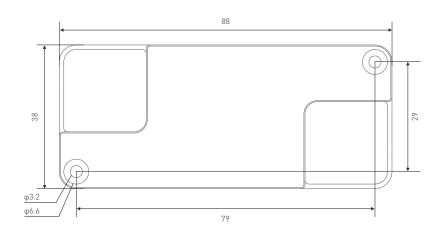
## Technical Specs

Model		SN-15-350-G	IN SN-15-3	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 Curr	ent		1						
	Output Feature	Isolation									
Features	Protection Grade	IP20									
	Insulation Grade	Class II (Suita	ble for class I/ II	/III light f	ixtures)						
	Output Voltage	9-42Vdc									
OUTPUT	Maximum output voltage	<50Vdc									
	Output Current	350mA	300mA		250mA	220mA	200mA	180mA	150mA		
	Output Power Range	3.15W-14.7W	2.7W-12.	6W	2.25W-10.5W	1.98W-9.24W	1.8W-8.4W	1.62W-7.56W	1.35W-6.3W		
	Current Accuracy	土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		
	Power Factor	PF>0.95	PF>0.95		PF>0.9	PF>0.9	PF>0.9	PF>0.9	PF>0.9		
		at full load at full loa		a d	at full load	at full load	at full load	at full load	at full load		
	THD	THD<10% THD<109		6	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		
		≥87%	≥87%		≥86%	≥86%	≥86%	≥85%	≥84%		
	Efficiency (Typ.)	at full load at full loa		эd	at full load	at full load	at full load	at full load	at full load		
	Inrush Current	Cold start 3A(	Test twidth=30us	tested ur	nder 50% Ipeak)/230V	ac	·		· ·		
	Anti Surge	L-N: 1KV									
	Leakage Current	Max. 0.5mA									
	Working Temperature	ta: -20 ~ 50°C tc: 85°C									
	Working Humidity	20 ~ 95%RH, non-condensing									
NVIRONMENT	Storage Temperature/Humidity	-40 ~ 80°C/10-95%RH									
	Temperature Coefficient	±0.03%/°C(0-50°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.									
ROTECTION	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 recover									
	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	CCC Chi	China GB19510.1, GB19510.14								
		TUV Ger	many	EN61347-1, EN61347-2-13, EN62493							
		СВ СВ	Member States								
		CE Eur	opean Union	EN61347-1, EN61347-2-13, EN62384							
		KC Kor	ea	KC61347-1, KC61347-2-13							
		EAC Rus	sia	IEC61347-1, IEC61347-2-13							
SAFETY		RCM Aus	stralia	AS 61347-1, AS 61347-2-13							
&		ENEC Eur	Europe EN61347-1, EN61347-2-13, EN62384								
EMC		UKCA Bri	Britain BS EN 61347-1, BS EN 61347-2-13, BS EN 62493								
		BIS Ind	BIS India IS 15885 (PART 2/SEC 13)								
	EMC Emission	CCC Chi	CCC China GB/T17743, GB17625.1								
		CE Eur	opean Union	EN55015, EN61000-3-2, EN61000-3-3, EN61547							
		KC Kor	ea	KN15, KN61547							
		EAC Rus	sia	IEC62493, IEC61547, EH55015							
		RCM Aus	stralia	EN55015, EN61000-3-2, EN61000-3-3, EN61547							
		UKCA Bri			EC 55015, BS EN IEC	61000-3-2, BS EN 61	1000-3-3, BS EN 6154	7			
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN									
	Power Consumption	Standby power consumption		No standby mode							
		Networked st	,		No networked standby mode						
ErP		No-load power consumption		<0.3W							
	Flicker/Stroboscopic Effect	IEEE 1789		Meet IEEE 1789 standard/High frequency exemption level							
		CIESVM		Pst LM≤1.0, SVM≤0.4							
	DF	Phase factor		DF>0.9							
OTHERS	Weight(N.W.)	55g±10g									
	Dimensions	88×38×22m	m(L×W×H)								

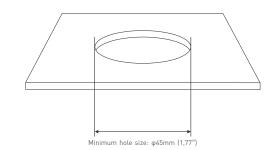


### Product Size

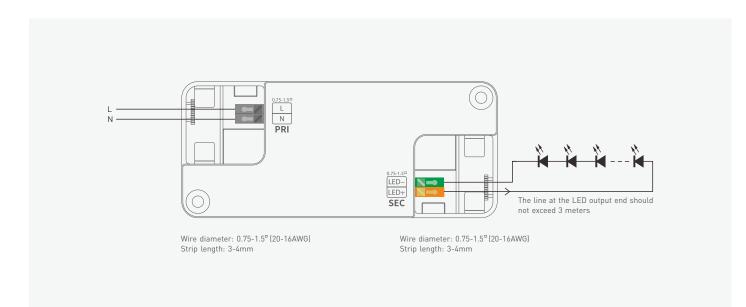
Unit: mm







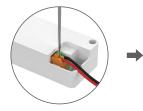
## Wiring Diagram



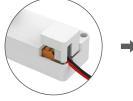


### Protective Housing Application Diagram

#### 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.

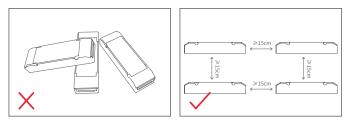
Removal of crimping cover



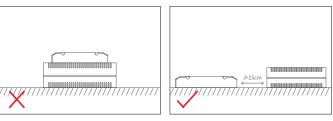


Pry the protective cover at the bottom of the housing left/right with a screwdriver to remove it.

## Installation Precautions



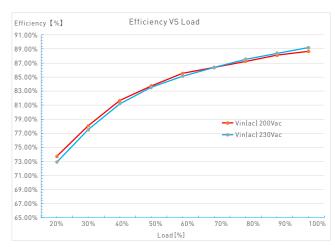
Please do not stack the products. The distance between two products should be ≥15cm so as not to affect heat dissipation and the lifespan of the products.



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

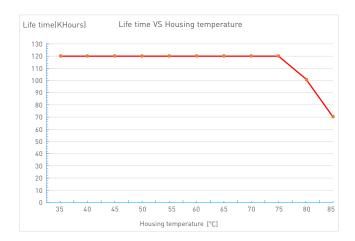
## **Relationship Diagrams**

#### SN-15-350-G1N



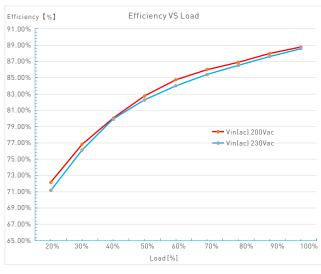


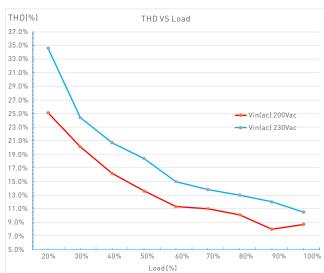




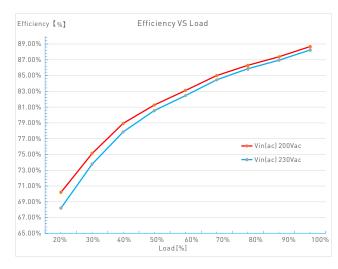
# LTECH

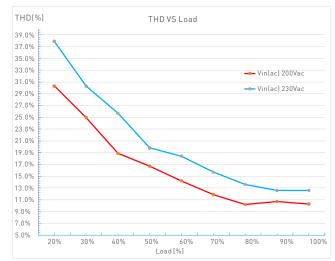
#### SN-15-300-G1N



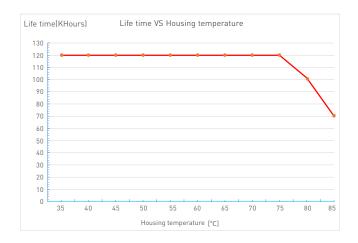


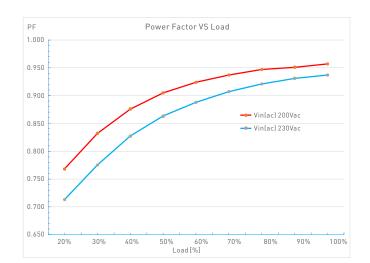
#### SN-15-250-G1N

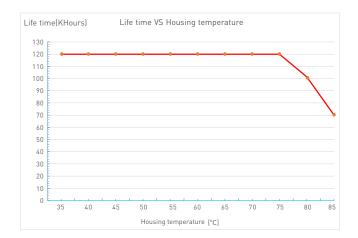








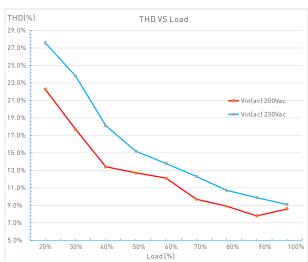




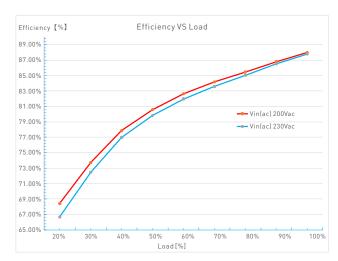
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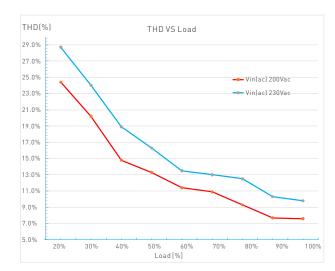
#### SN-15-220-G1N



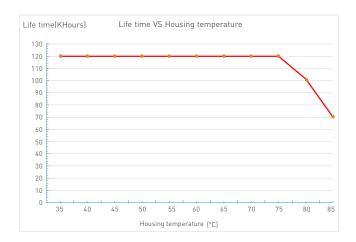


#### SN-15-200-G1N

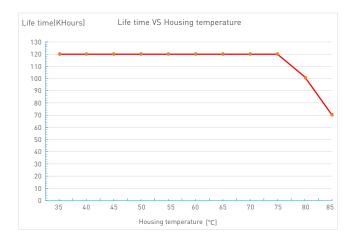






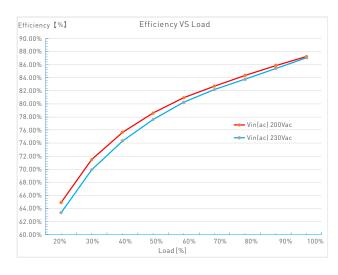






## LTECH

#### SN-15-180-G1N



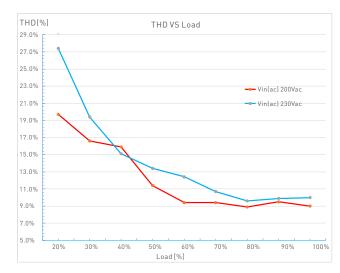


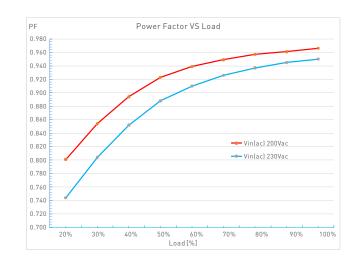
#### PF Power Factor VS Load 1.000 0.980 0.960 0.940 0.920 0.900 0.880 0.860 0.840 Vin(ac) 230Vac 0.820 0.800 0.780 0.760 0.740 0.720 0.700 50% 60% Load[%] 30% 40% 70% 80% 90% 100%

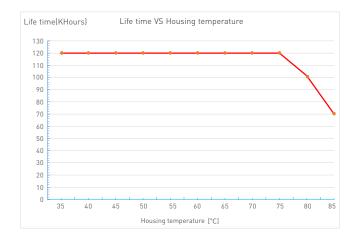


#### SN-15-150-G1N





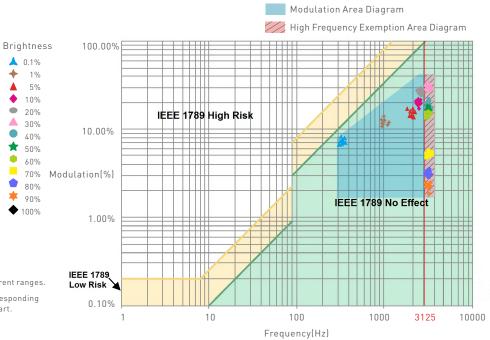






## Flicker Test Form

	IEEE 178						
Limit of Modulation in low risk area							
f ≤ 8Hz	0.2						
8Hz < <i>f</i> ≤ 90Hz	0.025 × f						
90Hz < <i>f</i> ≼ 1250Hz	$0.08 \times f$						
f > 1250Hz	Exemption assessment						
Limit of Modulation in no effect area							
<i>f</i> ≼ 10Hz	0.1						
10Hz < f ≤ 90Hz	0.01 × f						
90Hz < <i>f</i> < 3125Hz	[0.08/2.5] × f						
f > 3125Hz	Exemption assessment (High frequency exemption)						



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.

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## 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



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.
- 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
AO	2023.01.13	Original version	Liu Weili