

LED Driver (Constant Current)

- The housing is made from V0 flame retardant PC materials.
- Ultra-small, thin and light screwless end cap.
- Change the output current, Max Level and other parameters via the APP.
- Adjustable output current with 1mA step.
- Soft-on and fade-in dimming function enhances your visual comfort.
- High performance, high efficiency, low THD.
- Innovative thermal management technologyintelligently protects the life of the LED driver.
- Overheat, overvoltage, overload, short circuit protection and
- Suitable for ClassI/II/III indoor light fixtures.
- Indoor office lighting, decorative lighting and commercial lighting.
- 5-year warranty.



Flicker-Free

NFC•))



















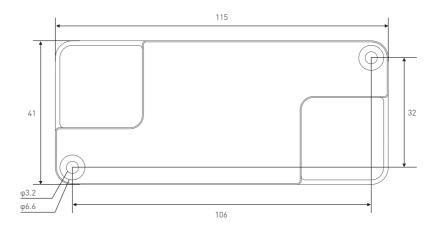
Technical Specs

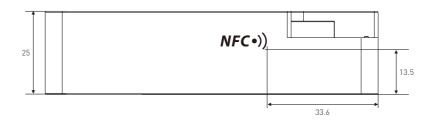
Model		SN-45-300-1050-G1NF					
	Output Type	Constant Current					
Features	Output Feature	Isolation					
	Protection Grade	IP20					
	Insulation Grade	Class II	Class II (Suitable for class I/ II /III light fixtures)				
ОИТРИТ	Output Voltage	9-42Vdc					
	Maximum output voltage	≤55Vdc					
	Output Current Range	300-1050mA					
	Output Power Range	Max.45W					
	Current Accuracy	±5%					
	Current Ripple	<5% (W	<5% (When outputting maximum current)				
	DC Voltage Range	220-240	220-240Vdc				
	Input Voltage	220-240	220-240Vac				
	Frequency	50/60H	50/60Hz				
	Input Current	≤0.09A					
INPUT	Power Factor	PF>0.9alt full load)					
	THD	THD<10%a(t full load)					
	Efficiency (Typ.)	≽88% a(tfullload)					
	Inrush Current	Cold start 15A(Test twidth=us tested under 50% Ipeak)/230Vac					
	Anti Surge	L-N: 2KV					
	Leakage Current	Max. 0.	5mA				
	Working Temperature	ta: -20-	-45°Ctc: 90°C				
	Working Humidity	20~95%RH,non-condensing					
ENVIRONMENT	Storage Temperature/Humidity	-40~80°C/10~95%RH					
	Temperature Coefficient	±0.03%	±0.03%/°C(0-50°C)				
	Vibration	10~500	10~500Hz, 2G 12min/1cycle, 72 min for X, Y and Z axes respectively				
	Overload Protection	Automatically protect the device when the load exceeds 102% of the rated power. Automatically recover once load is reduced					
PROTECTION	Overheat Protection	Intelligently adjust or turn off the current output if the PCB temperature ≥110°C. automatically recover normal output					
PROTECTION	Overvoltage Protection	Automatically protect the device when voltage exceeds the no-load voltage. It can be recovered automatically					
	Short Circuit Protection	Enter h	Enter hiccup mode if short circuit occurs, and recover automatically				
	Withstand Voltage	I/P-0/P	I/P-0/P: 3750Vac				
	Insulation Resistance	I/P-0/P	I/P-0/P: 1 Insulation Resistance 00MΩ/500VDC/25°C/70%RH				
		ccc	China	GB19510.1, GB19510.14			
	Safety Standards	TUV	Germany	EN61347-1, EN61347-2-13, EN62493			
		СВ	CB Member States	IEC61347-1, IEC61347-2-13			
		CE	European Union	EN61347-1, EN61347-2-13, EN62384			
		KC	Korea	KC61347-1, KC61347-2-13			
		EAC	Russia	IEC61347-1, IEC61347-2-13			
SAFETY		RCM	Australia	AS61347-1, AS61347-2-13			
&		ENEC	Europe	EN61347-1, EN61347-2-13, EN62384			
EMC		UKCA	England	BS EN61347-1,BSEN61347-2-13,BSEN62493			
		BIS	India	IS 15885 (PART 2/SEC 13)			
		ccc	China	GB/T17743, GB17625.1			
		CE	European Union	EN55015, EN61000-3-2, EN61000-3-3, EN61547			
	EMC Emission	KC	Korea	KN15, KN61547			
		EAC	Russia	IEC62493, IEC61547, EH55015			
		RCM	Australia	EN55015, EN61000-3-2, EN61000-3-3, EN61547			
		UKCA	England	BS EN IEC 55015, BS EN IE C61000-3-2, BS EN 61000-3-3, BS EN 61547			
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11, E					
	Power Consumption	No-load power consumption		<0.5W			
	Flicker/Stroboscopic Effect	IEEE1789		Meet IEEE 1789 standard/High frequency exemption level			
ErP		CIE SVM		Pst LM<1.0, SVM<0.4			
	DF	Phase factor		DF>0.9			
OTHERS	Weight(N.W.)	112g±10g					
OTHERS	Dimensions	115×41×25mm(L×W×H)					

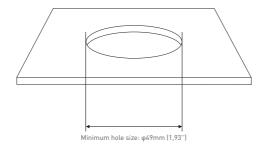


Product Size

Unit: mm







Wiring Diagram

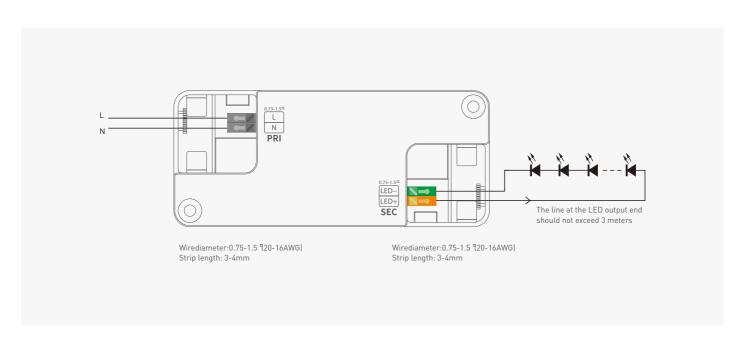




Table of Typical Corresponding Parameters for Current

he typical 16 current data sets below are for reference when selecting LED fixture models. More current levels can be set by NFC using mobile APP with 300-1050mA adjustable in 1mA step									
Output Current	300mA	350mA	400mA	450mA	500mA	550mA	600mA	650mA	
Output Voltage	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	
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	
Output Current	700mA	750mA	800mA	850mA	900mA	950mA	1000mA	1050mA	
Output Voltage	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	
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	9-42W	9.45-44.1W	

Protective Housing Application Diagram

Crimping cover buckle



Use a screwdriver to wire according to the wiring diagram.

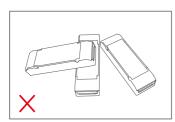
Snap together the terminals on both sides with protective covers, nd press down until it is flat with the housing.

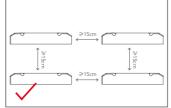
Removal of crimping cover



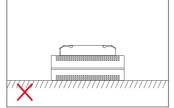
Pry the protective cover at the bottom of the housing left/right with a screwdriver to remove it.

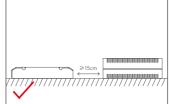
Installation Precautions





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

Note: The temperature within the installation area should be within the working temperature range of the products. Please do not install products inside LED fixtures to avoid temperature exceeding the working temperature that may affect the product lifetime.



Use the NFC Lighting APP

Scan the QR code below with your mobile phone and follow the prompts to complete the APP installation (According to performance requirements, you need to use a NFC-capable Android phone, or an iphone 8 and later that are compatible with iOS 13 or higher).



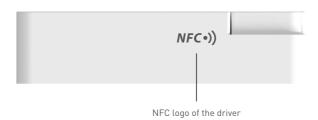
* Before you begin setting the parameters of the driver, please make sure the driver is powered off.

Read/Write the LED driver

Use your NFC-capable phone to read LED driver data, then edit the parameters and they can be directly written to the driver.

1.Read the LED driver

On the APP home page, click [Read/Write LED driver], then keep the programmer's sensing area close to the NFC logo of the driver to read the driver parameters.



2.Edit the parameters

ClickParameter settings to edit the advanced parameters, like output current, Max Level, power-on fading time, etc.

3.Write to the driver

After completing the parameter settings, click [Write] in the upper right corner, and keep the programmer's sensing area close to the NFC logo of the driver, so the parameters can be written to the driver.



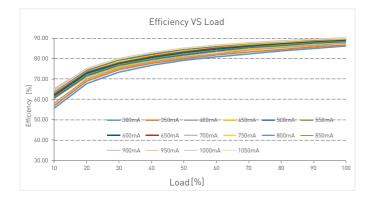


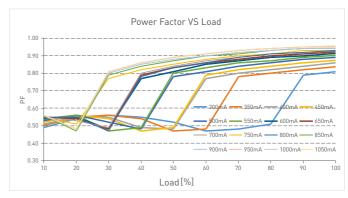


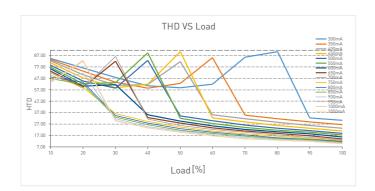


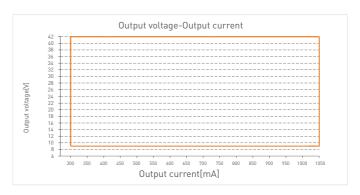
LTECH

Relationship Diagrams









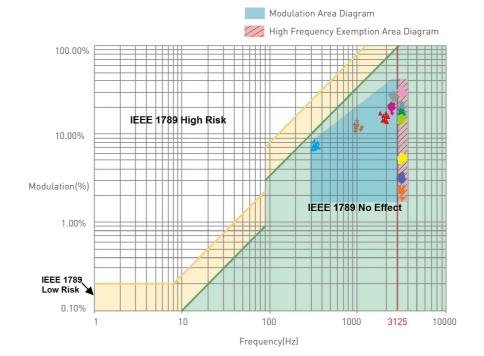
Flicker Test Sheet

IEEE 1789

Limit of modulation in low risk area					
f ≤ 8Hz	0.2				
8Hz < f ≤ 90Hz	0.025 × f				
90Hz < f ≤ 1250Hz	0.08 × f				
f > 1250Hz	Exemption assessment				
Limit of modulation in no effect area					
f ≤ 10Hz	0.1				
10Hz < f ≤ 90Hz	0.01 × f				
90Hz < f ≤ 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.





Packaging Specifications

Model	SN-45-300-1050-G1NF
Carton Dimensions	480×230×170mm(L×W×H)
Quantity	20 PCS/Layer; 4 Layers/Carton; 80 PCS/Carton
Weight	0.112 kg/PCS;9.76 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.

Warrantyexclusionsbelow:

- · 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
A0	2023.11.28	Original version	Li siyu

8