

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























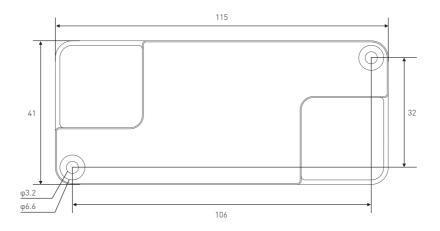
Technical Specs

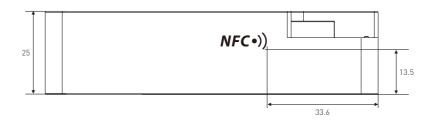
-	Output Typo	5N-45-	300-1030-01NF			
-		SN-45-300-1050-G1NF				
	Output Type	Constant Current				
Features	Output Feature	Isolation				
⊢	Protection Grade	IP20				
	Insulation Grade	Class II [Suitable for class I/ II /III light fixtures]				
	Output Voltage	9-42Vdc				
	Maximum output voltage	≤55Vdc				
UUIPUI	Output Current Range	300-1050mA Max.45W				
	Output Power Range	±5%				
-	Current Accuracy					
	Current Ripple	<5% (When outputting maximum current) 220-240Vdc				
-	DC Voltage Range	220-240Vac				
H-	Input Voltage					
-	Frequency Input Current	50/60Hz ≤0.09A				
-	Power Factor	PF>0.9at full load)				
INPUT _	THD					
-		THD<10%a(t full load)				
	Efficiency (Typ.) Inrush Current	>88% at t full load)				
-	Anti Surge	Cold start 15A(Test twidth=us tested under 50% peak)/230Vac				
	Leakage Current	L-N: 2KV				
	Working Temperature	Max. 0.5mA				
	Working Humidity	ta: -20-45°Ctc: 90°C				
NVIDONMENT	Storage Temperature/Humidity	20~95%RH,non-condensing				
	Temperature Coefficient	-40-80°C/10-95%RH ±0.03%/°C(0-50°C)				
	Vibration					
	Overload Protection	10~500Hz, 2G 12min/1cycle, 72 min for X, Y and Z axes respectively				
	Overheat Protection	Automatically protect the device when the load exceeds 102% of the rated power. Automatically recover once load is reduced Intelligently adjust or turn off the current output if the PCB temperature >110°C. automatically recover normal output				
PRUIECIIUN	Overvoltage Protection	Automatically protect the device when voltage exceeds the no-load voltage. It can be recovered automatically				
	Short Circuit Protection	Enter hiccup mode if short circuit occurs, and recover automatically				
	Withstand Voltage	I/P-0/P: 3750Vac				
_	Insulation Resistance			ice 00MΩ/500VDC/25°C/70%RH		
		CCC	China	GB19510.1, GB19510.14		
	-	TUV	Germany	EN61347-1, EN61347-2-13, EN62493		
	Safety Standards	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		
CAFFTY		RCM	Australia	AS61347-1, AS61347-2-13		
SAFETY &		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)		
	EMC Emission	CCC	China	GB/T17743, GB17625.1		
		CE	European Union	EN55015, EN61000-3-2, EN61000-3-3, EN61547		
		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, EN		61547		
L	Power Consumption	No-load power consumption		<0.5W		
ErP	Flicker/Stroboscopic Effect -	IEEE1789		Meet IEEE 1789 standard/High frequency exemption level		
LIF		CIESVN	CIE SVM Pst LM<1.0, SVM<0.4			
	DF	Phase factor		DF>0.9		
OTHERS	Weight(N.W.)	112g±10g				
	Dimensions	115×41	×25mm(L×W×H)			

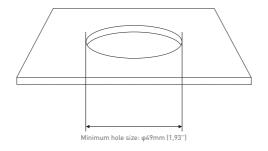


Product Size

Unit: mm







Wiring Diagram

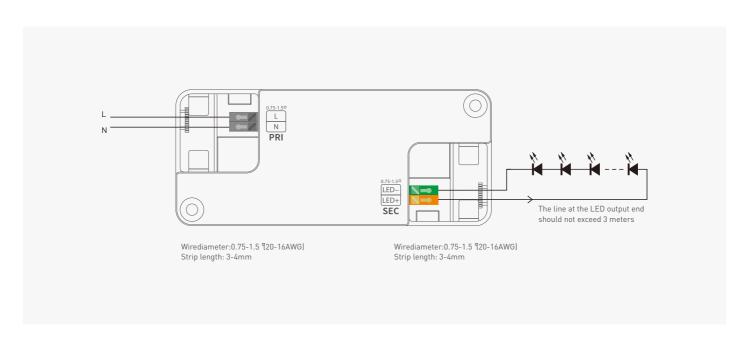




Table of Typical Corresponding Parameters for Current

The 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.

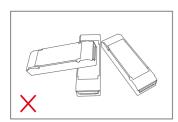
Snap together the terminals on both sides with protective covers, nd press down until it is flat with the housing.

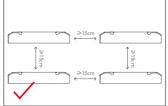
Removal of crimping cover



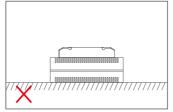
Pry the protective cover at the bottom of the housing left/right with a screwdriver to remove it.

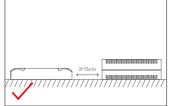
Installation Precautions





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 \geqslant 15cm 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).



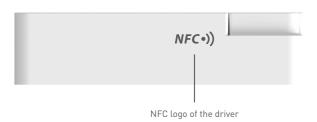
* Before you begin setting the parameters of the driver, please make sure the driver is powered off.

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.



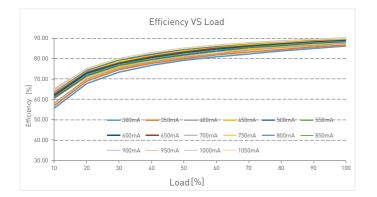


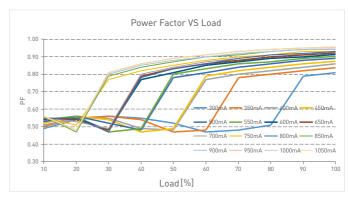


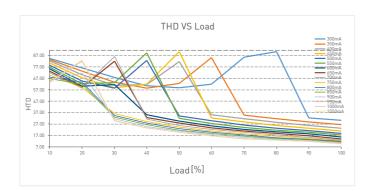


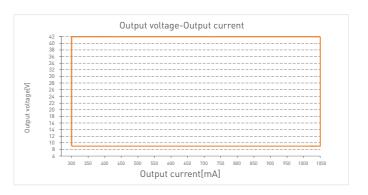
LTECH

Relationship Diagrams









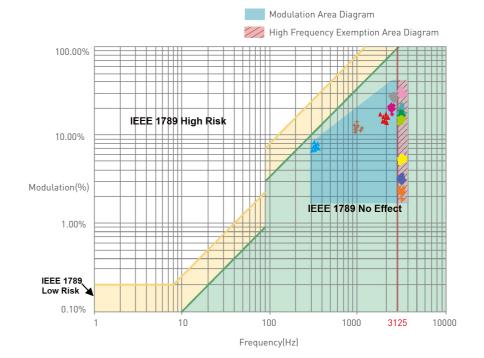
Flicker Test Sheet

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

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