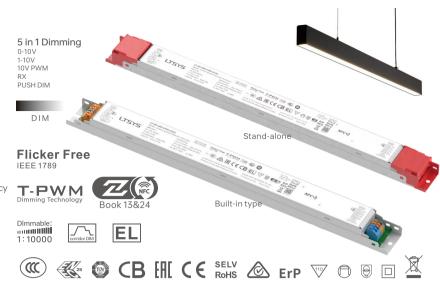


Office Linear Smart Dimming Power Supply (Constant Current Type)

- Slim metal housing; Overall design complies with Zhaga standards: built-in models meet Zhaga Book 13 and Book 24 specifications, while standalone models meet Zhaga Book 24 requirements;
 • Supports 0-10V, PUSH DIM, and corridor lighting dimming;
 • Supports NFC rapid programming, enabling smartphone app control
- via NFC to adjust output current, dimming modes, and other parameters $\,$ for driver data interaction:
- NFC current setting with step increments as low as 1mA for enhanced compatibility and precision;

- Ultra-low 0-10V port consumption < 0.05mA;
 T-PWM ultra-deep dimming technology achieving 0.01% dimming depth;
 0-100% full-range dimming with zero visible flicker, meeting high-frequency exemption standards;
- Features soft-start gradual brightening for enhanced visual comfort;
- EU ERP compliance: no-load power consumption and network standby power < 0.5W;
- OV output at no load to prevent LED fixture damage from poor contact;
 Over-temperature, over-voltage, overload, and short-circuit protection with automatic recovery;
- Suitable for indoor Class I, II, and III luminaires, such as linear lights, triple-proof lights, floor lamps, bracket lights, and other linear or ultra-thin fixtures
- Lifespan up to 100,000 hours under normal use;
- 5-vear warrantv.













Technical Specs

1	Output Type		00-2100-G1A2 (Stand-a		LF-80-600-2100-G1A2 (Built-in type)						
1		Constan	t current								
<u> </u>	Dimming Interface	0-10V(1-10V,10V PWM,RX), PUSH DIM									
	Output Feature	Isolation									
-	Zhaga Standard	Book 24			Book 13,24						
FEATURES -	Installation Method	Can be i	ndependently installed	d in ceilings or light channels, etc.	Installed inside the luminaire						
⊢	Other Features		Lighting Applications	2 11 00 111 1go 01 11g1 10 101 11 1010, 0101	Thousand thousand the farminance						
H	IP Rating	IP20	Lighting / tppileations								
	Insulation Class		uitable for class I/II/III light	t fixtures)							
	Output Voltage	9-54V 	artable for class fright light	· incures)							
	Max. Output Voltage(No-load)	≤59.5V 	-								
_	Rated Current Range			nt levels via the mobile app's NFC fea	ture, with step increments as low as 1mA; Default: 600mA)						
H	Load Power Range	5.4-80W		The levels via the mobile apportioned	tare, with step indications as low as min, belaute, seeing, y						
	Dimming Range		, Dimming depth: 0.0	1%							
	LF Current Ripple	< 5%(Maximum current for non dimming state)									
	Current Accuracy	±5%									
_	PWM Frequency	±5% ≤3600Hz									
	AC Voltage Range	220-240									
—	DC Voltage Range	220-240									
	Rated Voltage	230V~	•								
	Frequency	0/50/60	 Hz								
<u>-</u>	Input Current	≤0.4A/230V ~									
	Power Factor	S0.4A/250V ~ PF > 0.9/230V ~ (Fully loaded)									
	THD			ed)							
<u> </u>	Efficiency(Typ.)	230V~@THD<10% (Fully loaded) 88.5%									
_	Inrush Current	Cold start20A(Test twidth=215us tested under 50% peak)/230V ~									
—	Anti Surge L-N: 2KV L-FG/N-FG: 4KV										
_	Leakage Current	Max.0.5mA									
	Operating Temperature	ta:-20°C~50°C tc:80°C									
_	Working Humidity	20~95%RH, non-condensing									
	Storage Temperature/Humidity	-40~80°C/10~95%RH									
<u> </u>	Temperature Coefficient	±0.03%/°C(-20°C~50°C)									
_	Vibration	10~500Hz, 2G 12min/1cycle, 72 min for X, Y and Z axes respectively									
(Overload Protection	Automa	tically protect the devi	ce when the load exceeds 102% of the	e rated power. Automatically recover once load is reduced						
(Overheat Protection	Intelligently adjust or turn off the current output if the PCB temperature ≥110°C. When the PCB temperature <90°C, automatically recover normal outp									
PROTECTION	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									
1	Withstand Voltage	I/P-O/P:	3750V~/1min/ < 5mA	A, I/P-FG: 1750V~ /1min/ < 5mA, O/I	P-FG:500V~ /1min/ < 5mA, Signal-FG:500V~ /1min/ < 5mA ①						
ı	Insulation Resistance	I/P-O/P: 100MΩ/500V~ /1min/25°C/70%RH									
		CCC	China	GB19510.1, GB19510.14, GB195	10.213						
		TUV	Germany	EN61347-1, EN61347-2-13, EN63	2493						
		СВ	CB Member States	IEC61347-1, IEC61347-2-13							
		CE									
SAFETY	Safety Certifications	EAC	Russia	IEC61347-1, IEC61347-2-13							
&		RCM	Australia	AS 61347-1, AS 61347-2-13							
		ENEC	Europe	EN61347-1, EN61347-2-13, EN63	2384						
EMC —		CCC	China	GB/T17743, GB17625.1							
		CE									
, E	EMC Emission	EAC Russia IEC62493, IEC61547, EH55015									
		RCM Australia EN55015, EN61000-3-2, EN61000-3-3, EN61547									
F	EMC Immunity		D-4-2,3,4,5,6,8,11,EN615								
		Networked standby		< 0.5W(After shutdown by comman	nd)						
I .	Power Consumption		power consumption	< 0.5W (When the lamp is not connected)							
ErP		IEEE1789		< 0.5W (When the lamp is not connected) Meet IEEE 1789 standard/High frequency exemption level							
F	Flicker/Stroboscopic Effect	CIE SVM		PstLM≤1.0, SVM≤0.4							
,	Weight(N.W.)	310g±5c		295g±5g							
OTHERS -	Dimensions		3 5x21.3mm(LxWxH)								
. 1.1	DILLICI IQIOLIQ	JUJXJU.	JALIJIIII(LXVVXII)		JOUXJU.JXZ1.JHHH(LXVVXII)						

①Note: When performing a withstand voltage test to ground (FG), the gas discharge tube at the drive input must be temporarily removed to prevent functional operation of the internal gas discharge tube (see IEC 60598-1-10.2). After testing is complete, it must be reinstalled to restore surge protection functionality for the power line to ground and ensure reliable contact.



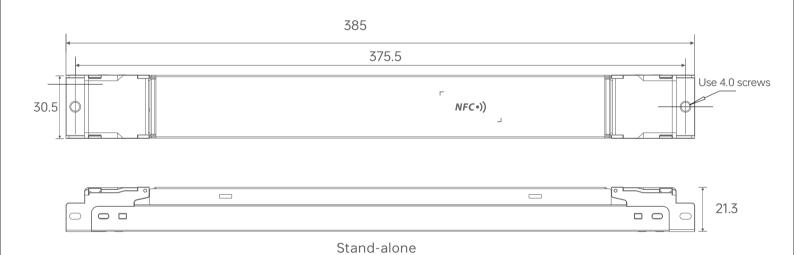


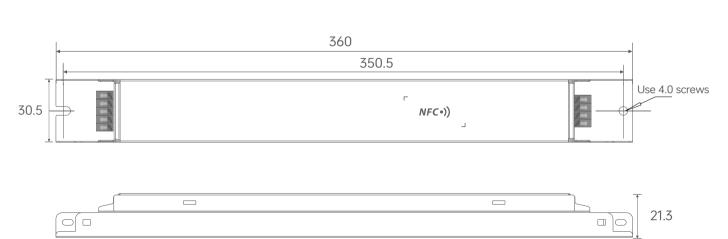
Typical Current Corresponding Parameter Table

The following 31 groups of typical current data are provided for model selection reference. More currents can be set via the mobile phone APP NFC. The settable range is 600-2100mA, and the current step value can be as low as 1mA.											
	Output Current 600mA		650mA	700mA	750mA	800mA	850mA	900mA	950mA		
	Output Voltage 9-54Vdc		9-54Vdc	9-54Vdc	9-54Vdc	9-54Vdc	9-54Vdc	9-54Vdc	9-54Vdc		
	Output Power 5.4-32.4W		5.85-35.1W	3.6-21.6W	6.75-40.5W 7.2-43.2W		7.65-45.9W	8.1-48.6W	8.55-51.3W		
	Output Current	tput Current 1000mA		1100mA	1150mA	1200mA 1250mA		1300mA	1350mA		
	Output Voltage	9-54Vdc	9-54Vdc	9-54Vdc	9-54Vdc	9-54Vdc	9-54Vdc	9-54Vdc	9-54Vdc		
LF-80-600-2100-G2A2	Output Power	9-54W	9.45-56.7W	9.9-59.4W	10.35-62.1W	10.8-64.8W	11.25-67.5W	11.7-70.2W	12.15-72.9W		
LF-80-800-2100-82A2	Output Current	1400mA	1450mA	1500mA	1550mA	1600mA	1650mA	1700mA	1750mA		
	Output Voltage	9-54Vdc	9-54Vdc	9-53.3Vdc	9-51.6Vdc	9-50Vdc	9-48.5Vdc	9-47.1Vdc	9-45.7Vdc		
	Output Power	12.6-75.6W	13.05-78.3W	13.5-80W	13.95-80W	14.4-80W	14.85-80W	15.3-80W	15.75-80W		
	Output Current 1800mA		1850mA	1900mA	1950mA	2000mA	2050mA	2100mA			
	Output Voltage	9-44.4Vdc	9-43.2Vdc	9-42.1Vdc	9-41Vdc	9-40Vdc	9-39Vdc	9-38.1Vdc			
	Output Power	16.2-80W	16.65-80W	17.1-80W	17.55-80W	18-80W	18.45-80W	18.9-80W			

Product Size

Unit: mm



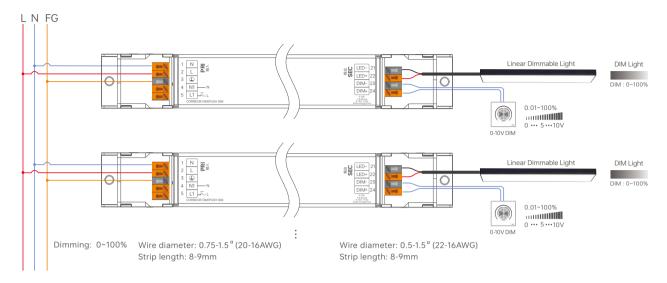


Built-in type

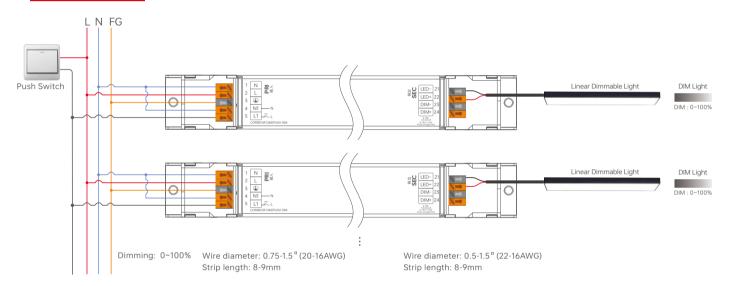


Connectivity Diagram

0-10V Connection Method



PUSH DIM Connection





Operation Instructions

- · Short press : on/off control.
- Long press: Brightness adjustment +/-, each subsequent long press will adjust the brightness in the opposite direction.
- $\bullet \ \, \text{Dimming Memory: When switched on or off again, the light will return to the previously adjusted brightness level.}$

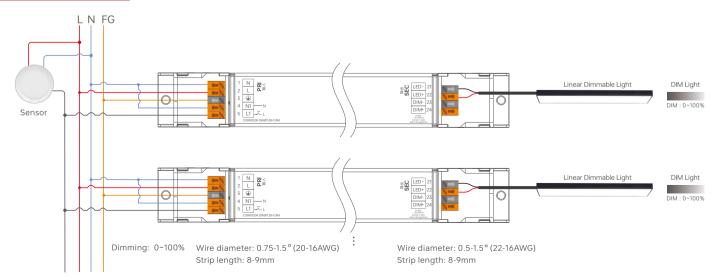
Push Switch

Switch to PUSH DIM dimming mode

Method 1: If already switched to Corridor Dimming mode, connect the wiring according to the PUSH DIM wiring diagram. Reset the switch by pressing it 5 times within 3 seconds, then hold it down for 6 seconds, followed by pressing it 5 times within 3 seconds. The driver will automatically switch to PUSH DIM dimming mode.

Method 2: If already switched to Corridor Mode, you can switch to PUSH DIM dimming mode via the NFC Lighting app.

Corridor Light Mode Connection



Switch to the corridor light mode

Method 1: Switch the driver to the corridor light mode via the NFC Lighting app, and the Push DIM mode will be turned off.

Method 2: After connecting the wires according to the corridor dimming wiring diagram, keep moving within the effective sensing area for more than 2 minutes,

and it will automatically switch to the corridor dimming mode with all lights on at full brightness.

Method 3: After connecting the wires according to the corridor dimming wiring diagram, first replace the sensor with a common switch, then turn on the common switch according to the corridor dimming wiring diagram, first replace the sensor with a common switch, then turn on the common switch according to the corridor dimming wiring diagram, first replace the sensor with a common switch, then turn on the common switch according to the corridor dimming wiring diagram, first replace the sensor with a common switch, then turn on the common switch according to the corridor dimming wiring diagram, first replace the sensor with a common switch, then turn on the common switch according to the corridor dimming wiring diagram, first replace the sensor with a common switch according to the corridor dimming wiring diagram, first replace the sensor with a common switch according to the corridor dimming wiring diagram. The corresponding to the corre

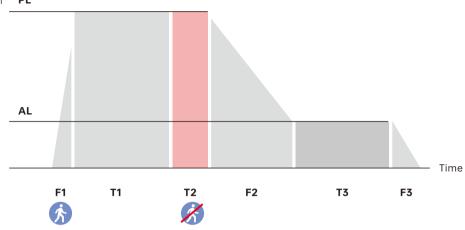
switch and keep it conducting for 2 minutes. The driver will automatically switch to the corridor dimming mode. After that, remove the common switch and replace it with the sensor again.

Note:: During normal operation, it is recommended to set the hold-time of the motion sensor to the minimum.

It is necessary to select a motion sensor with an AC switch.

Process of Corridor Dimming





Name	Default	Setting Range
(F1) Fade-in Detection Time	1s	0-100 s
(PL) Detection Brightness	255	0-255
(T1) Induction Hold Time	Set via the sensor	
(T2) Delay Time	30 s	0 s,5 s,10 s,20 s,30 s,45 s,1 min, 2 min, 3 min,5 min,10 min,20 min,30 min
(F2) Gradual Exit Sensing Time	1s	0-100 s
(AL) Hold Brightness Level	100	0-255
(T3) Detection Hold Time	30 s	0 s,5 s,10 s,20 s,30 s,45 s,1 min,2 mins,3 mins,5 mins, 10 mins,20 mins,30 mins,Permanent
(F3) Fade-out Time to Off	1s	0-100 s



Note: *If the lamp needs to be on standby at a low brightness level, the [T3] Sensing Standby Time should be set to "Permanent".

Protective Housing Application Diagram



2. Use a screwdriver to pry up the



4. Connect the wiring according to the wiring diagram.



5. Press down on the wire board to secure the wire



6. Close the protective cover.

3. Use a screwdriver to pry protective cover on the side panel. up the side of the terminal block.

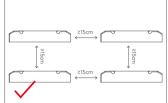
^{*}The above parameters are set through the NFC lighting APP.





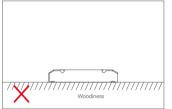
Installation Precautions

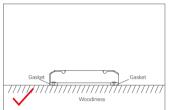




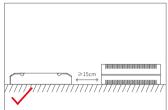
Please do not stack the products. The distance between two products should be \geq 15cm so as not to affect heat dissipation or the lifetime of the products.

Note: Installation must comply with the product's operating temperature range. Do not install inside lighting fixtures to avoid exceeding the product's operating temperature range, which may affect its lifespan.





Do not fix the product screws tightly against the wooden board. Instead, add a washer with a thickness of \geq 7mm under the fixing screws. Leaving some gaps can effectively dissipate heat, preventing any impact on the product's heat dissipation performance and service life.



Please not place the products on power supplies. The distance between the product and the power supplies should be ≥15cm so as not to aśect heat dissipation or shorten the lifetime of the products.

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).



 $\textcolor{red}{\bigstar} \ \, \text{Before you begin setting the parameters of the driver, please make sure the driver is powered off.}$

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 sensing area of the driver to read the driver parameters.







2. Edit parameters

Click on [Parameter Management] to edit more advanced parameters such as Output Current, Select Brand, Dimming Type, Power-on Fading Time, Dimming Curve, Brightness Range and Corridor Light.

3. Write to the drive

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

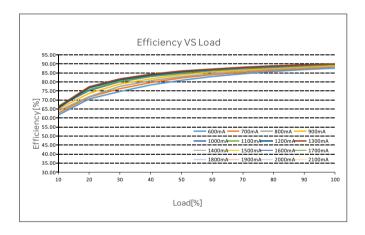


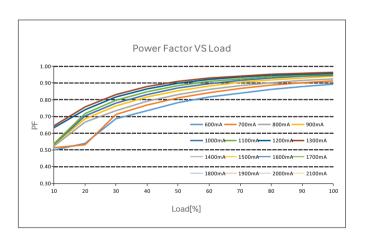


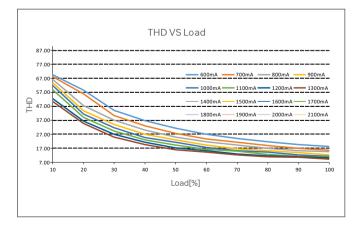


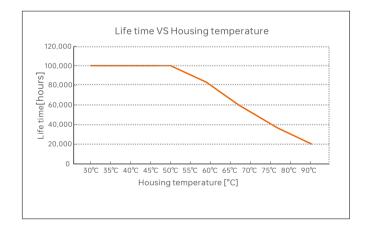


Relationship Diagrams









LF-80-600-2100-G1A2





Surge Current & Corresponding Miniature Circuit Breaker (MCB) Load Capacity Table

MCB Model	B10	B13	B16	B20	B25	C10	C13	C16	C20	C25	D10	D13	D16	D20	D25
Maximum Load Capacity	15	19	24	30	40	17	22	27	35	43	20	25	31	39	49

Remarks:

- 1. Test Conditions: Cold start 20A(Test twidth=215us tested under 50% lpeak)/230V \sim
- 2. The number of supported drivers may vary depending on the brand and model of the MCB.
- 3.It is recommended not to exceed the specified load capacity during on-site installation. The actual load should be determined based on field conditions
- 4.If the ambient temperature exceeds 30°C or multiple MCBs are installed side by side, the number of installed drivers must be reduced and recalculated accordingly.
- 5. Electricians typically use Type B MCBs for residential lighting and Type C MCBs for commercial lighting applications.
- 6.Different testing equipment may yield variations in measured current peaks and pulse widths. Always use professional-grade instruments for accurate testing

Modulation Area Diagram Flicker Test Sheet High Frequency Exemption Area Diagram IFFF 1789 Brightness 100.00% **A** 0.1% Limit of modulation in low risk area 1% 5% 10% 20% 0.08 × f IEEE 1789 High Risk 30% 10.00% 40% Limit of modulation in no effect area 50% 60% 70% Modulation(%) 80% 90Hz < f ≤ 3125Hz IEEE 1789 No Effect **1**00% 1.00% IEEE 1789 Low Risk 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. 0.10% 100 1000 10000 10 3125

Packaging Specification

Model	LF-80-600-2100-G1A2
Packaging box size	405×255×140mm(L×W×H)

Packaging Style Drawing



Inner packaging box



Full box packaging





Website: www.ltech-led.com

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

- Product installation and commissioning should be done by a qualified professional.
- LTECH products are and not lightningproof non-waterproof (special models excepted). Please avoid the sun and rain. When installed outdoors, please ensure they are mounted in a water proof enclosure or in an area equipped with lightning protection devices.
- $\bullet \quad \mathsf{Good} \ \mathsf{heat} \ \mathsf{dissipation} \ \mathsf{will} \ \mathsf{prolong} \ \mathsf{the} \ \mathsf{working} \ \mathsf{life} \ \mathsf{of} \ \mathsf{products}. \ \mathsf{Please} \ \mathsf{ensure} \ \mathsf{good} \ \mathsf{ventilation}.$
- $\bullet \ \ \mathsf{Please} \ \mathsf{check} \ \mathsf{if} \ \mathsf{the} \ \mathsf{working} \ \mathsf{voltage} \ \mathsf{used} \ \mathsf{complies} \ \mathsf{with} \ \mathsf{the} \ \mathsf{parameter} \ \mathsf{requirements} \ \mathsf{of} \ \mathsf{products}.$
- The diameter of wire used must be able to load the light fixtures you connect and ensure the firm wiring.
- Before you power on products, please make sure all the wiring is correct in case of incorrect connection that causes damage to light fixtures.
- · If a fault occurs, please do not attempt to fix products by yourself. If you have any question, please contact your suppliers
- * 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.
- $2.\,LTECH\,has\,the\,right\,to\,amend\,or\,adjust\,the\,terms\,of\,this\,warranty, and\,release\,in\,written\,form\,shall\,prevail.$

Update Log

Version	Updated Time	Update Conten	Updated by
Α0	20251111	Original version	Haipeng Li