



# **POWER SUPPLIES SERIES LNF-60**

# High quality LED power supplies with constant voltage output (CV)

#### **FEATURES:**

- compact design
- reliable and powerful
- high efficiency
- compliant with international lighting standards
- fully protected
- durable and robust unit
- easy to mount case

#### **APPLICATIONS:**

- indoor lighting LED systems
- retail and industrial lighting
- stage LED lighting
- digital signage systems
- architectural LED lighting
- emergency lighting



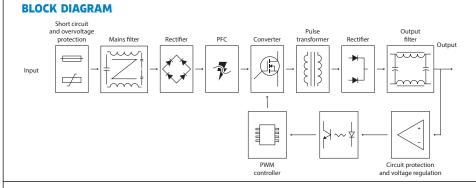
**LNF-60** is a series of high-performance 60-watt power supplies for LED lighting systems. It has a slim case made of durable plastic. It is a high-quality power unit, meets the requirements of international standards and provides high output power. It is based on high quality electronic components that allow continuous, long-lasting work in all environmental conditions. It is reliable, fully protected and stable. 5 years warranty included.

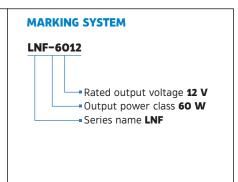
#### **TECHNICAL CHARACTERISTICS**

Group	Parameter	LNF-6012	LNF-6024	Conditions
Input	Rated input voltage	230	230 VAC	
	Input voltage range	220 - 2	220 – 240 VAC	
	Mains frequency range	50	50 Hz	
	AC current (max.)	0.	5 A	At 240 VAC and full load
	Inrush current (max.)	40 A	40 A	At 240 VAC and full load
	No-load power consumption (max.)	0.25 W	0.25 W	
	Input leakage current (max.)	0.25	0.25 mA	
	Power factor correction	Y	Yes	
	Power factor (min.)	C	0.9	
	Regulation type	CV – const	CV – constant voltage	
	Rated output voltage	12 V	24 V	
	Ripples and noise voltage	150 mVpp	200 mVpp	
	Rated output power	60	60 W	
0	Rated output current	5 A	2.5 A	
Output	Efficiency	88%	89%	At 240 VAC and full load
	Line regulation	±2	2%	220 – 240 VAC
	Load regulation	±3%	±2.5%	
	Turn on delay time (max.)	300	300 ms	
	Hold time after power loss (max.)	1	1 s	
LED brightness	Brightness control	N	No	
	Working temperature range	-20°C t	−20°C to +45°C	
	Maximum enclosure temperature	8.5	85℃	
Environmental	Working humidity range	20 ~ 9	20 ~ 90% RH	
	Storage temperature range	-20°C t	−20°C to +60°C	
	Cooling method	Free air o	Free air circulation	
	Input: overvoltage (OVP), undervoltage (UVP)	0	OVP	
	Output: overcurrent (OCP), short circuit (SCP), overvoltage (OVP)	OCP (105 – 145%), SCP, OVP (16 V)	OCP (115 – 145%), SCP, OVP (36 V)	Rectangular characteristic
Protection	Spike voltage protection	Y	Yes	
	Automatic recovery on fault remove	Υ	Yes	
	Thermal switch off	Y	Yes	
	Withstand isolation voltage (min.)	3 kVAC (inpi	3 kVAC (input to output)	
	Isolation resistance (min.)	10	10 ΜΩ	
	Isolation class		2	
	Safety compliance		EN61347-1, EN61347-2-13 EN60598-1, EN60598-2-6	
Safety and EMC	EMC compliance (emission)	EN5	EN55015	
	EMC compliance (harmonic current emission)	EN61000-3-2	EN61000-3-2, -3-3, Class C	
	EMC compliance (immunity)		EN61547 EN61000-4-2, -4-5, Class C	
	Marking	CE, UKC	CE, UKCA, RoHS	

Notes: Unless otherwise stated, all parameters are specified at 230 VAC input voltage, 50 Hz, ambient temperature 25°C and relative humidity 70% for rated load output. The values of parameters related to the output voltage regulation is measured from low to high line or for load changes from 0 to 100%, respectively. The power supply is considered as an independent unit, but the final equipment still need to reconfirm that the whole system complies with the EMC directives. If the PSU is installed in the final device as a subassembly, the tests should be repeated to verify that the system has been met compliance. Detailed technical data are available on request.

Mechanical	Enclosure type	White ABS plastic (removable connector covers)		
	Dimensions	147 × 48 × 25 mm		L * W * H
	Weight	228 g		
	Input connector	Terminal block		0.75 – 1.5 mm <sup>2</sup>
	Output connector	Terminal block		1.0 - 2.5 mm <sup>2</sup>
	Single package size	155 × 58 × 35 mm		
	Packing	330 × 300 × 200 mm		50 items
	Manufacturing	China		
	Warranty	5 years		
	EAN code	5904139614037	5904139613962	

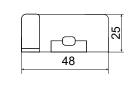




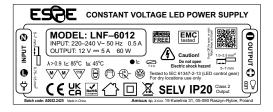
#### **MECHANICAL SPECIFICATION**



L



## **PRODUCT LABEL**





- maximum allowable power supply mounting height



- high voltage inside the power supply enclosure warning



- switching power supply

# Legend to the label icons:

- line connection (brown or black wire)

- neutral connection (blue) Ν tc: 85℃ - maximum case temperature

ta: 45°C - maximum ambient temperature

- II safety class: no grounding is required, no dangerous voltage even in an emergency situation will appear on output

- power supply intended for indoor use only

- it can be installed separately outside a lighting fixture without an additional housing

- means safety isolating control gear with short circuit protection - can be placed on wood surfaces or built into furniture - thermally protected at 110℃

- designed for continuous operation

- the product must not be disposed of in normal waste containers

- Safety Extra Low Voltage output insulated from both the mains and ground circuits

IP20

- defined in EN 60529 levels of sealing effectiveness of electrical enclosures against intrusion from foreign bodies (tools, dirt) and moisture

### **LNF LED POWER SUPPLY SERIES**

No.	Series	Model	Power Supply Name	EAN	Voltage [V]	Current [A]	Power [W]	Dimensions
1.	LNF	LNF-3012	LED ESPE LNF 12V 2.5A 30W IP20	5904139614013	12	2.5	30	120 × 42 × 20 mm
2.	LNF	LNF-3024	LED ESPE LNF 24V 1.25A 30W IP20	5904139614020	24	1.25	30	120 × 42 × 20 mm
3.	LNF	LNF-6012	LED ESPE LNF 12V 5A 60W IP20	5904139614037	12	5	60	148 × 48 × 25 mm
4.	LNF	LNF-6024	LED ESPE LNF 24V 2.5A 60W IP20	5904139613962	24	2.5	60	148 × 48 × 25 mm
5.	LNF	LNF-10012	LED ESPE LNF 12V 8.33A 100W IP20	5904139613979	12	8.33	100	170 × 57 × 32 mm
6.	LNF	LNF-10024	LED ESPE LNF 24V 4.16A 100W IP20	5904139614044	24	4.16	100	170 × 57 × 32 mm
7.	LNF	LNF-15012	LED ESPE LNF 12V 21.6A 260W IP20	5904139614075	12	12.5	150	180 × 65 × 32 mm
8.	LNF	LNF-15024	LED ESPE LNF 24V 13.3A 320W IP20	5904139613986	24	6.25	150	180 × 65 × 32 mm

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