

## LED Linear Light

MODEL: FNL120B-36N, FNL120B-36B



### Electrical input data

Specification item	Value	Unit	Condition
Nominal input voltage	220...240	Vac	
Nominal input frequency	50...60	Hz	
Nominal input current	180	mA	Input voltage 230 Vac, full load
Input inrush Current I-peak	22	A	240Vac input, 25°C, cold start
Input inrush Current T-width	220	us	240Vac input, measured at 50% I <sub>max</sub>
Nominal input power	36	W	Input voltage 230 Vac, 36W ± 10%
Power factor	> 0.9		Input voltage 230 Vac, full load
Total harmonic distortion	< 20	%	Input voltage 230 Vac, full load
Input voltage AC	198...265	Vac	Maximum permissible range
Input frequency AC	47...63	Hz	Maximum permissible range
Protection Class of complete product	Class I		
Output voltage range	390-430	Vdc	
Output current	80	mA	
Output ripple current Percentage (%)	<5	%	(I <sub>max</sub> - I <sub>min</sub> ) / (I <sub>max</sub> + I <sub>min</sub> ) * 100%

## Photometric characteristics

Specification item	Value	Unit	Condition
CCT	4000 / 6500	K	Color temperature
CRI	> 80		Color rendering index
Total Luminous flux	5040	lm	>(0.9*5040) lm
Optical efficiency	140	lm/W	
Color Consistency	< 6	SDCM	
Center point: (x,y)	(0.38,0.38)		4000K
	(0.312, 0.335)		6500K

## Environment Requirements

Specification item	Value	Unit	Condition
Operating temperature	-20...+40	°C	
Operating Relative Humidity	20..85	%	
Storage Temperature	-40...+80	°C	
Storage Relative Humidity	5..90	%	
IP level	IP20		
IK level	IK06		
Glow wire test component	650	° C	
Switching cycles	50000	cycles	5s on/off IEC 62612
Life-time	50000	hours	At nominal input conditions ( 25°C)
Guarantee	5	years	At nominal input conditions ( 25°C)

## Safety standards

Specification item	Value	Unit	Condition
Dielectric Strength(Hi-pot)	/	Vac	Primary to GND, 5mA Max.
Earth leakage Current	/	mA-pk	253Vac / 50Hz
Insulation Resistance	/	MΩ	Primary to GND, 500Vdc voltage
Grounded Resistance	/	Ω	at 25A, 1 minute
Approval marks	CE		
Safety standard	EN60598-1, EN60598-2-1, EN61347, EN62471, IEC62493		

## EMC standards

Specification item	Remark	Condition
EN55015	Disturbance voltages at mains terminals	Accord
EN55015	Radiated disturbance in frequency range 9KHz to 30MHz	Accord
EN55015	Radiated disturbance in frequency range 30MHz to 300MHz	Accord
EN 61000-3-2	Harmonic current emissions (Class C)	Accord
EN 61000-3-3	Voltage fluctuations & flicker	Accord
EN 61000-4-2	Electrostatic discharge immunity test ESD :8kV air discharge, 4kV contact discharge	Accord
EN 61000-4-3	Radiated, radio frequency, electromagnetic field immunity RS: 80M-1000M 3V/m	Accord
EN 61000-4-4	Electrical fast transient / burst immunity EFT: ±1KV 5KHz	Accord
EN 61000-4-5	Surge immunity: line to line 0.5kV	Accord
EN 61000-4-6	Immunity to conducted disturbances, induced by radio -frequency fields CS: 0.15M-80M 3Vr.m.s	Accord
EN 61000-4-11	Voltage dips, short interruptions and voltage variationsimmunity	Accord

## Dimensions and weight

Specification item	Value	Unit	Condition
Housing	PC		
Length	1102±1	mm	
Width	67± 1	mm	
Height	70± 1	mm	
Weight	/	gram	



Model	Length (L)	Width (W)	Height (H)	Mounting (A)
FNL120B-36	1102 +/-1mm	67.4mm	78.7mm	850 +/- 50mm
FNL150B-48	1402 +/-1mm	67.4mm	78.7mm	1150 +/- 50mm