

24/36W Single Channel Constant Voltage Output

LEN103 **IP67**



Key Features

- Designed for LED lighting applications
- Universal AC input (100~277Vac)
- Built-in active PFC provide PF>0.90 over entire input range
- Turn on time < 1 second with soft start
- Aluminum case cooled by air convection
- Protections: Short circuit , Over voltage, Over Current , Over temperature
- IP67 / IP65 design for indoor or outdoor environment
- Suitable for dry, damp, wet location
- Compliance with worldwide safety regulations for lighting
- 5 year warranty

Orderable Part Numbers

Article Number: 651103

Part Numbers	Constant Voltage output(DC,V)	Max. Output Current(A)	Load Reg.*	Max. Effic.	Max. Output Power(W)
LEN103A	12	2.0	±5%	>88%	24.5
LEN103B	24	1.0	±5%	>88%	24.7
LEN103C	12	3.0	±5%	>88%	36.3
LEN103D	24	1.5	±5%	>88%	36.8

Technical Data

Series	LEN103	
Output	DC Voltage Range	12 ~ 24Vdc (see orderable parts table for details)
	Rated Current Range	1.0A ~ 3.0A (see orderable parts table for details)
	Rated Power	up to 36.8W
	Load Regulation*	±5%
	Turn On Time	< 1s at full load
Input	Voltage Range	90 ~ 305Vac
	Frequency Range	47 ~ 63Hz
	Power Factor (Typ.@277VAC)	PF ≥ 90% at full load
	Efficiency (Typ. @277VAC)	≥ 88% at full load(see orderable parts table for details)
	AC Current	0.41A @ 115Vac and 0.21A @ 230Vac
	Inrush Current (Typ.)	≤ 65A @ 230Vac cold start with full load
	LENkage Current	≤ 0.75mA @ 277Vac
Protection	THD (Total Harmonic Dist.)	< 25%
	Short Circuit	Hiccup mode protection. Recovers automatically after fault condition is removed
	Over Voltage	< 30% above the maximum output voltage listed for the specific part number. Latch mode – unit needs to be power cycled to recover
	Over Current	< 10% above the maximum output current listed for the specific part number the unit limits the current. Unit auto recovers after fault is removed
	Over Temperature	Unit turns off when Tc > 90°C. Shuts down – unit needs to be power cycled to recover

LEN Series LED Power Supply



Environment	Working Temperature	-30°C ~ + 70°C at Full Load
	Working Humidity	20% ~ 90% RH non-condensing
	Storage Temperature	-40°C ~ + 80°C
	Storage Humidity	10% ~ 90% RH non-condensing
	Vibration	10 ~ 500Hz, 2G 10min/1 cycle period for 60 minutes along each axis (X, Y, Z)
Safety & EMC	Safety Standards	UL8750, UL1310, UL1012, UL879, UL60950-1, CSA C22.2 No. 250.0-08 (except for 15V-54V,), EN61347-1, EN61347-2-13 independent, IP67 approved ; TUV EN60950-1 Compliant
	EMI Conduction & Radiation	Compliance to EN55015 Class A, FCC 47CFR Part 15 Class
	Harmonic Current	Compliance to EN61000-3-2 Class C
	EMS Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, Light Industry Level (surge 4KV), criteria A
Lifetime	> 50,000 hours	
Note	<p>10. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 of ambient temperature.</p> <p>11. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.</p> <p>12. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>13. Constant current operation region is within 50% ~100% rated output voltage. This is the suitable operation region for LED related applications, but pLENse reconfirm special electrical requirements for some specific system design.</p> <p>14. Derating may be needed under low input voltages. PLENse check the for more details.</p> <p>15. Safety and EMC design refer to EN60598-1, subject CNS15233, GB7000.1, FCC part18.</p> <p>16. Length of set up time is measured at cold first start. Turning ON/OFF the power supply may LEND to increase of the set up time.</p> <p>17. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. static characteristics</p> <p>18. Refer to warranty statement.</p>	

Dimensions

Unit:mm

