

## 150W Single Channel Constant Voltage Output

### LEA112

input 100-277V constant VOLTAGE 0/1-10V RoHS compliance CE 100 F M M 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
- Dimmable output with flexible architecture
  - ✧ Standard DC0/1-10V control interface (2 wire dimming input, External dimming control signal to control the PWM dimming range from 0%-100%)
  - ✧ PWM Dimming (2-wire dimming input)
  - ✧ Supports majority of available dimming solutions
- 5year warranty

#### Orderable Part Numbers

#### Article Number: 652112

Part Numbers	Constant Voltage output(DC,V)	Max. Output Current(A)	Load Reg.*	Max. Effic.	Max. Output Power(W)
LEA112A	12	12.5	±5%	>88%	151.8
LEA112B	24	6.3	±5%	>90%	153.3
LEA112C	36	4.1	±5%	>90%	149.8
LEA112D	48	3.1	±5%	>90%	151.3

#### Technical Data

Series	LEA112	
Output	DC Voltage Range	12 ~ 48Vdc (see orderable parts table for details)
	Rated Current Range	3.1A ~ 12A (see orderable parts table for details)
	Rated Power	up to 153.3W
	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	1.7A @ 115Vac and 0.9A @ 230Vac
	Inrush Current (Typ.)	≤ 65A @ 230Vac cold start with full load
	LEAage Current	≤ 0.75mA @ 277Vac
Dimming	THD (Total Harmonic Dist.)	< 25%
	Modes	Standard DC0/1-10V control interface, Sink or Source<1mA PWM Dimming Control Wide dimming range from 0% up to 100% Dimming over entire input voltage range
	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
Protection	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

# LEA Series Dimming LED Power Supply



<b>Environment</b>	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)
<b>Safety &amp; EMC</b>	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
<b>Lifetime</b>	<b>&gt; 50,000 hours</b>	
<b>Note</b>	<ol style="list-style-type: none"> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 of ambient temperature.</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>Constant current operation region is within 50% ~100% rated output voltage. This is the suitable operation region for LED related applications, but pLEAsE reconfirm special electrical requirements for some specific system design.</li> <li>Derating may be needed under low input voltages. PLEAsE check the for more details.</li> <li>Safety and EMC design refer to EN60598-1, subject CNS15233, GB7000.1, FCC part18.</li> <li>LEAgh of set up time is measured at cold first start. Turning ON/OFF the power supply may LEAd to increase of the set up time.</li> <li>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</li> <li>Refer to warranty statement.</li> </ol>	

## Dimensions

Unit:mm

