LUXdrive™ by LEDdynamics

LE201 Duo

CONSTANT VOLTAGE LIGHT ENGINE

Product Overview

LE201 is a versatile constant voltage LED linear array. Implementing the newest technology in mid-power LEDs. LE201 is modular allowing the user to cleave the engine into smaller standalone units. The 12" light engine can be sectioned into multiples of 3" units allowing the user to decide the length needed.

Features & Benefits

- DC input voltage up to 30V
- Driver on board. Simple wiring, only need to connect to a constant voltage source
- 20mA, 30mA, 40mA, 50Ma, 60mA and custom constant current outputs available
- 1/2" pitch LED spacing with the ability to chain multiple boards together for continuous light, while maintaining even pitch between boards
- Cleavable into smaller standalone units
- Reverse polarity protection to prevent accidental improper wiring
- Mounting holes for ease of install

Product Selection

LE201-X XX X X XX XX

LED Count:
A = 48

Shape:
R = Rectangle

Product Family

Size:
12 = 12 inches

CRI:
7 = 70+ CRI
8 = 80+ CRI
9 = 90+
B = Blue
R = Red
G = Green
Y = Yellow
H = Horticulture

CCT:
24 = 2400K
27 = 2700K
30 = 3000K
35 = 3500K
40 = 4000K
50 = 5000K
65 = 6500K
lu = Blue
ed = Red
re = Green
el = Yellow

Drive Current:
20 = 20 mA
30 = 30 mA
40 = 40 mA
50 = 50 mA
60 = 60 mA

RoHS Compliant 2002/95/EC

Pb

MADE IN U. S. A.

Electrical Specifications

Specification	Min	Typical	Max	Unit
Input Voltage	20	24	30	VDC
Output current	20		60	mA
Output Current Tolerance		±10%		%

Drive Current	3”	12”	Unit
20 mA	0.96	3.84	W
30 mA	1.44	5.76	W
40 mA	1.92	7.68	W
50 mA	2.88	11.52	W
60 mA	4.32	17.28	W

Heat Concerns

Thermal management should always be a consideration in any LED application. The LE201 can be powered with no thermal management on models that are less than 40 mA. For all the models that are over 40 mA a heat sink is required for the light engine. The addition of a thermal adhesive or paste should be used between the light engine and the heat

Mounting, Max lengths, Cleaving

Mounting holes are provided on the LE201, reference mechanical specifications for locations. A 4-40 machine screw should be used when using the mounting holes. The washer used should not exceed 0.3” in diameter. The use of larger washers has the potential to short circuit the board if it breaks through the soldermask.

The Maximum number of boards that can be daisy chained together should be limited to 8’ of light. Please contact technical support if you are considering exceeding this.

LE201 can be cleaved/chopped into smaller standalone sections. This allows the user to create a multiple light engines from the original 12” product. It can be cleaved into 9”, 6” or 3” standalone units. Care needs to be taken when cutting the printed circuit board (PCB). A rugged pair of scissors, paper cutter, large wire cutters, or any comparable tool should be used. Make certain to only cut on the dotted lines on the board. CUTTING ANYWHERE ELSE WILL RENDER THAT SECTION UNUSABLE! After cutting inspect the board to make sure there is no exposed copper showing. If there is copper showing it is very likely you will short circuit the board when attaching it to a heatsink. It is recommended to lightly sand the edges of the cut PCB with a fine grit sand paper. This is to remove any fiberglass splinters or burrs of copper that persist after cutting.

Mechanical Specifications

Specification	Imperial	Metric
Length	12"	304.8 mm
Width	0.95"	24.13 mm
Height	0.115"	2.92 mm
Weight	1.03oz	29g