

LED Controller Board - LDB-2300 Series

The LDB-2300 series is a high efficiency boost DC/DC controller board that drives a number of LEDs connected in a series/parallel configuration. The built-in Pulse Width Modulation (PWM) signal for the dimming control function allows users to set LED brightness smoothly. The LDB-2300 series also features a fast LED current rise/fall time to achieve a wide dimming range and minimizes LED color distortion during the dimming mode and power protection feature enables to protect LED module from damage by over current or over voltage.



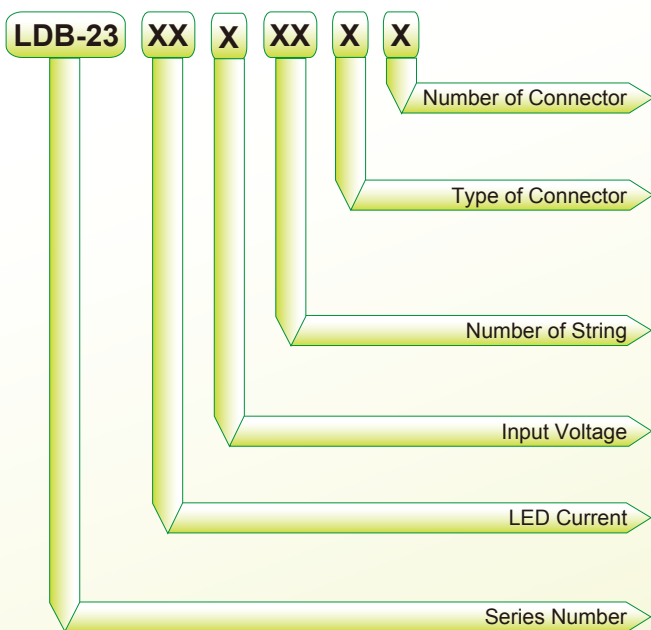
Features

- High efficiency DC/DC power converter for LED backlight application supports a wide range of LCD panels including AUO, CMO, Samsung, LG, NEC, IDTech, Sharp, Fujitsu, Hannstar, CPT, Toshiba, Optrex, and Mitsubishi...etc.
- Built-in the Pulse Width Modulation (PWM) dimming control, (External DC level of 0V(off) to 5V(full-on))
- LED constant current circuit
- External power On/Off control
- Output short circuit protection
- Output over-voltage protection
- Soft start

Operating Condition

Item	Min.	Tye.	Max.	Units
Input Voltage	11.5	24	25	Volt
Over voltage Protection(OVP)	-	-	44	Volt
Controll Voltage (On)	2	5	7	Volt
Dimming Control	0	-	5	Volt
Efficiency	85	88	90	%
Operating Temperature	-20	25	75	°C
Storage Temperature	-50	25	125	°C

General Information of Model Number



1 Output Connector
2 Output Connectors

A: JST-SMB02B or Compatible
B: Header / 2.0 Pitch / 2 x 8 Pin
C: FPC / 0.5 Pitch / 10 Pin
D: FPC / 0.5 Pitch / 12 Pin

1 String
2 Strings
:
7 Strings
8 Strings

A: +24Vin
M: +12Vin

10mA
15mA
20mA
25mA
30mA

Series Number

Example

LDB-2320MX8C2
Series Number: LDB-23 series
LED Current: 20mA
Input Voltage: 24+
Number of String: 8 Strings
Type of Number: FPC / 0.5 Pitch / 10 Pin
Number of Connector: 2 Ouput Connector

Applications

- AUO - M215HW01_V6
- AUO - M240HW01_V6