

Manual & Analog-Input Controlled Universal LED Driver with Current Display

(Part Numbers: SLB-1200-1)

FEATURES

- Dual control modes: manual or analog-input.
- Universal-suitable for any LED
- Tiered maximum output current settings (i.e. 350, 750 and 1,200mA) to prevent overdrive
- Capable of driving variable loads

APPLICATIONS

- Microscopy
- Lighting
- Machine Vision
- Displays
- Semiconductor equipment
- Test instruments
- Medical Instruments

PRODUCT DESCRIPTION

Mightex's SLB-1200-1 universal LED driver is designed for driving a broad range of LED light sources. The LED driver has two operational modes:

- 1) **Manual Knob Control Mode:** the output current can be adjusted manually;
- 2) **Analog Input Control Mode:** the output current can be controlled via a 0 ~ 5V analog input signal.

The control mode is set via a DIP switch, and the factory default setting is "Manual Knob Control Mode". The driver also has a Maximum Current Setting DIP Switch, which allows user to set the maximum current to 350mA, 750mA or 1,200mA, whichever applicable. The factory default setting is 350mA. When the Maximum Current Setting DIP Switch is set at a smaller value (e.g. 350mA), the LED driver has a finer resolution for the output current.



When the driver is set to "Analog Input Control Mode", the output current is proportional to the voltage of the analog input signal.

ELECTRICAL SPECIFICATION

Parameters	SLB-1200-1	Unit
Number of Channels	1	
Power Supply Input Voltage (V_{dc})	9 ~ 24	V
Maximum Output Voltage (V_{max})	$V_{dc} - 3.0$	V
Maximum Per Channel Output Current (I_{max})*	1,200	mA
Maximum Per Channel Output Power (P_{max} **)	10	W

* The maximum output current can be set to 1,200, 750 or 350 mA using the DIP switch.

** If the channel output voltage is V_d and the output current is I_d , they must simultaneously satisfy the following conditions:

(1) $V_d \leq V_{max}$; (2) $I_d \leq I_{max}$; and (3) $V_d * I_d \leq P_{max}$.

CHANNEL I/O PIN DEFINITION

Each channel has four pins, defined as follows:

Pin Label	LED+	LED-	Analog Signal	Analog Input GND
Description	LED Anode	LED Cathode	0 ~ 5V Analog Input	Analog Input Ground

MECHANICAL SPECIFICATIONS

Dimension 150mm (L) x 106mm (W) x 55mm (H)

Weight 250g