

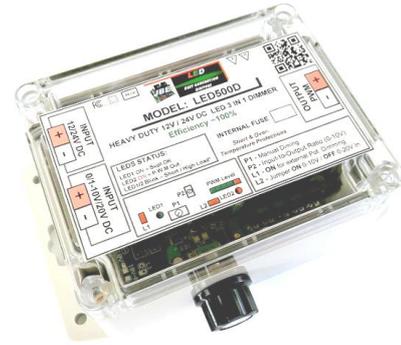


LED500D

12-24V DC

Features:

- PWM output current, MAX 30A (40A)*
- 0/1-10V Digital / Analog control input, Dimming control LED module
- Reverse Polarity
- Package: DIL8 or SOIC8 (you can update to new version)
- Dimming range is from 0-100% (LED Will start from 1%)
- Used for DC Power supply
- Short circuit protection, Over load protection
- Over temperature protection
- One channels 12-24VDC constant voltage output
- Complies with Australian and International EMC Standard
- Equipped with 3 diagnostic LEDs to assist in troubleshooting
- Professional design for home & commercial use eg. Theatres
- Made in Australia
- Power conditioning to protect LED's
- Long lasting durability
- 5 years warranty



Model: LED500D

Technical parameter:

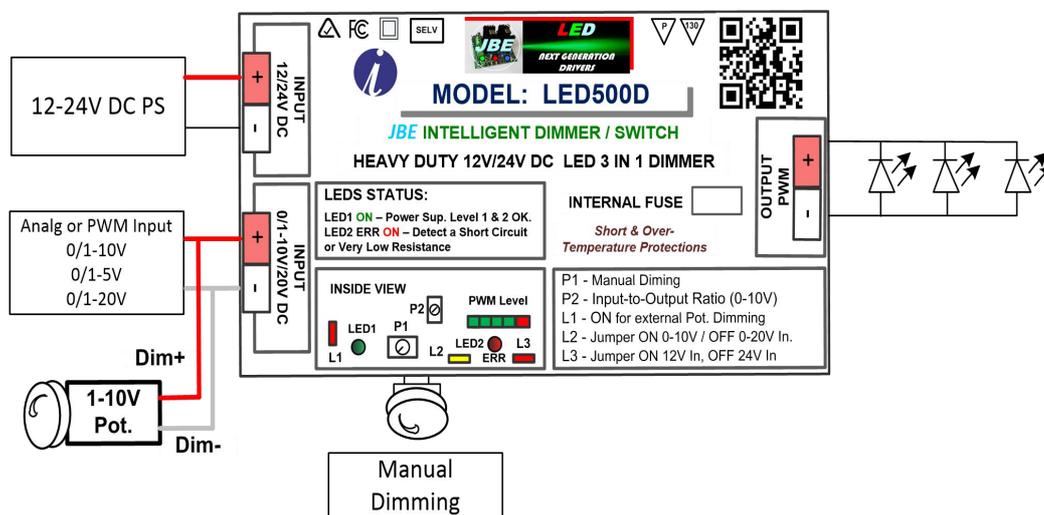
Parameter	Min.*	Nom.*	Max.	Unit
Input voltage range	12	12-24	24	Vdc
PWM voltage frequency range	120Hz	120Hz	Dc Input	Hz
12-24 V DC Input current	-	-	20	A/ ch
Output power	0.1	150	500	W
Output voltage	12	12-24	24	Vdc
Output current	-	-	30	A/ ch
Peak current	-	-	35	A/ ch
Dimming control:				
DC/Digital/PWM	0	1	20	Vdc
+Manual	0		5	Vdc
Out casing temp	-	-	70	°C
Surrounding temp	-20	-	50	°C
Protection:	-Short circuit protection -Overload protection -Over temperature protection			

IP65 version

Size (mm)



DALI wiring diagram:



Product installation notes:

- 1) Please read the connecting instruction picture before installation
- 2) Please use the complete set of product according to the provided specification
- 3) Please check the connecting method is correct or not before connecting the power

LED300/500D DIMMER CONTROLLER SPECIFICATIONS:

- Item type: Dimmer controller for LED light strip or any type LED / Incandescent light
- Voltage: DC 12-35V & 48V*
- Output: 1 channels
- Connection mode: Common Anode
- Static power consumption: <0.2W
- Rated output: 12V <200W, 24V <400W (12V <500W, 24 <1000W custom)*
- Dimming Control: 0-100%
- Efficiency: > 99.8% typical
- Overvoltage Protection: up to 36VDC*
- EMI: FCC Class A
- Humidity: 70-80% RH
- Lifetime: 80,000 hours +
- Max output current: 30A
- Working temperature: -40° - +60° C
- Material: Polycarbonate ABS Enclosures Temp range -40° to 120°C
- Controller size: L115 x H90 x W50mm
- Item weight: 165g
- Package weight: 180g

*- For more information contact JBE

Technical Requirements for Control Equipment

1. The light output of the LEDs operated by the dimmable driver is controlled via DC voltage or current applied to the control input terminal (0-10V) for external input or (1-10V) for internal input mean 10V Dc is activated.for digital 1-10 Dimmer Pot.
2. The driver is intended for use with control voltages between 0 (zero) and 10 (ten) VDC or custom settings. The control equipment must not impose a voltage greater than 25 volt peak maximum on the driver control terminals.
3. The two control types are current source (a theatrical dimming standard) and current sink (a dimming ballast standard).
4. There is an IEC standard for current sink controls - Standard 60929 Annex E. The standard requires that the ballast (or driver) provides full light output when the control voltage is 10 V- (or above). As the control voltage is reduced by the control, the light level is reduced. At a control voltage of 1 V-, the ballast (driver) provides its minimum light level.
5. An additional specification that needs to be considered is the current carrying capacity of the control. Standard 60929
6. Annex E requires the ballast (driver) to limit the current draw to 2.0 mA maximum.
7. Current sourcing controls for 0-10 V- are supported by the standard ESTA E1.3, Entertainment Technology – Lighting
8. Control System – 0-10 V- Analog Control Protocol, Draft 9 June 1997. It defines 10 V- as 100% light level and 0 V- as off. Drivers using this protocol require the control to provide (source) the voltage

Thermal Overload Compensation:

Automatically reduces lamp brightness should the dimmer be inadvertently overloaded or overheated. Resets automatically or manual depend on the version once overload conditions are corrected.

Short Circuit & over load protection:

Automatically reduces lamp brightness or switch off if the dimmer be inadvertently overloaded or if a short develops in the load, a large amount of current will flow in the regulator circuit limit the current automatically to a safe value or "0"

WARRANTY

This product is guaranteed for a period of 60 months* from the date of purchase against defects in workmanship and materials. Defects will be will be rectified by replacement of the product purchased except where, at our discretion, minor adjustments can be undertaken. The guarantee become invalid if in our opinion the product has been misused, abused, incorrectly installed, tampered with, connected to a power supply not corresponding with specifications, or subject to power surges.

The guarantee does not include any labour or other associated expenses that may be involved in removal or installation of the product. To obtain a replacement under this guarantee, return the goods (prepaid) to the place of purchase or direct to the Australian/NZ Distributor. Proof of purchase must be supplied.

This product does not contain any user serviceable parts. Spare parts and repair facilities are not available.

This guarantee is in addition to and does not affect your rights under applicable law except where that law expressly provides otherwise.

Please contact: www.jbelectronics.tech
www.jeffelectronics.com.au

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