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Revision History

This table provides a summary of the document revisions.

Date	Revision	Description
February 2008	Initial release of document to customers	

Product Description

The ACULED DMX Power Supply PSU-ACL01/700 DMX 220V provides 700 mA of output current and is ready for connection of 4-channel LED assemblies. The device is designed to be used for Power LEDs like the ACULED.

The automatic color change in color mixing applications is controlled via an integrated device with corresponding options. The device has four channels that can be activated separately by the DMX 512 protocol. The start address can be adjusted by coding switches that are easily accessible. With a maximum total output power of 30 W per channel, a constant current 700 mA is available per channel. Thus up to twelve ACULEDs can be operated with four different channels.

If a DMX signal is not available, the control of the LEDs can also be carried out by four external potentiometers or by means of the integrated device. Several color cycles with different speed are feasible. A master / slave function allows synchronous operation of several devices. The integrated LED display signals the presence of DMX reception. This is a considerable facilitation for installation.

The LED outputs are short-circuit-proof. By means of additional temperature measuring input, the temperature of the PCB of the LED can be controlled.

The 4-channel-device is a perfect solution for ACULED VHL™ / DYO™ applications in lighting technology where LEDs have to be operated from 0-100% output power.

Dimensions

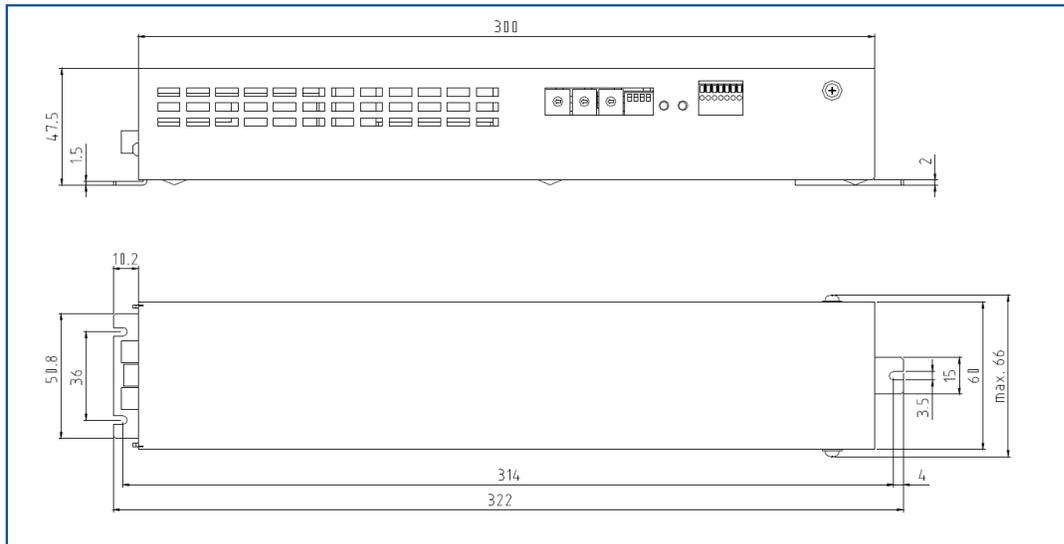


Figure 1
Dimensions of the DMX power supply

Schematic Diagram

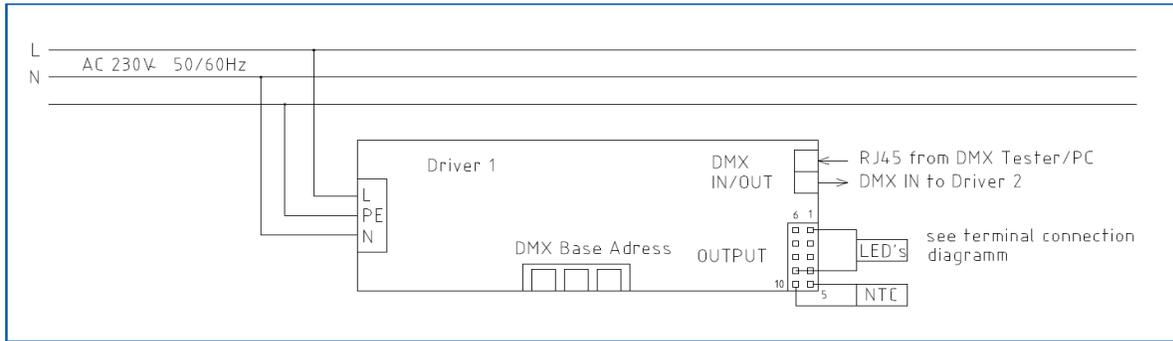


Figure 2
Schematic diagram of the DMX power supply

Terminal Connection Diagram of LEDs

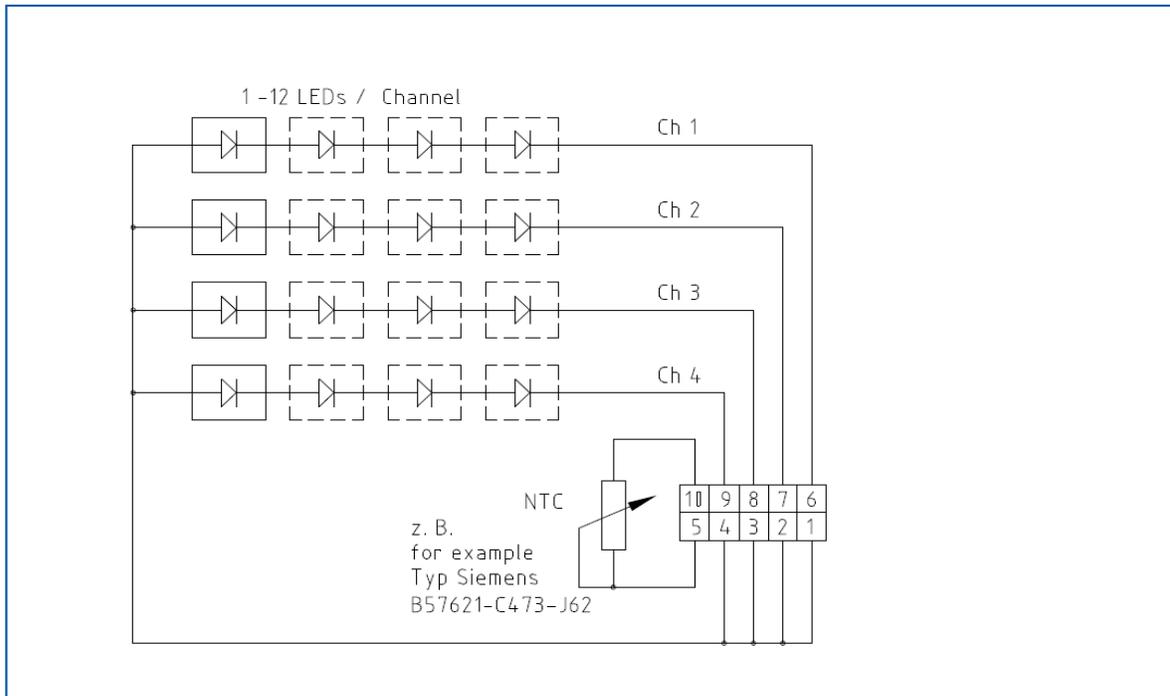


Figure 3
Terminal connection diagram of LEDs

Technical Data

Parameter	Symbol
Nominal voltage	230 V AC \pm 10% @ 50 / 60 Hz
Power factor Pf (with 12 connected LEDs / channel)	> 0.9
Inrush current	< 5 A at 0.5 ms
Power range per channel	max. 30 W
Output current	700 mA \pm 10 %
Protection class	I
Operating temperature range *	-10 °C to +40 °C
Storage temperature	-20 °C to +85 °C
Housing temperature Tc	max. +85 °C
Dimming range (PWM)	0...100%
Control interface	DMX 512 or conventionally via potentiometer
Connections	
Mains input	3-pole wire clamp (Wieland GST 18)
LED output	10-pole wire clamp (Molex Micro-Fit 3.0)
DMX input / output	type of plug: RJ 45
Dimmer inputs potentiometer	pressure clamp
Switch for addressing of control inputs	Coding switch / pre-adjustment via DIP switch
Standards compliancy	EN 55015 / EN 61547 / EN 61347-2-2 / EN 6100-3-2
Housing material	Top part BL 1.0 ALMg3 Bottom part BL 1.5 ALMg3
Dimensions (LxWxH) / mm	310 x 60 x 45

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