CE

FEATURES

- BOOSTER
- DC Input: 12/24 Vdc
- Command: D-PWM
- D-PWM signal amplifier
- Current output or Voltage outputs for LED Strip or LED Spotlight White, Tunable White, RGB or RGBW
- Typical Efficiency > 95%
- Adjusting the brightness up to completed off
- Extended temperature range
- 100% Functional test – 2 Years warranty

Constant voltage variants (common anode)
Application: Booster

CODE	Supply Voltage	Output	Channel	Command	
LQR4B-V1	12-24V DC	4 x 5A (max 10A tot.)	4	D-PWM	BOOSTER

Protections

OVP	Over voltage protection
UVP	Under voltage protection
RVP	Reverse polarity protection
IFP	Input fuse protection

Reference standards

EN 61347-1:2008 +A1:2011+A2:2013	Lamp controlgear - Part 1: General and safety requirements
EN 61000-3-2:2014	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)
EN 61000-3-3:2013	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection
EN 62384:2006+A1:2009	DC or AC supplied electronic control gear for LED modules - Performance requirements
EN 55015:2013+A1:2015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
EN 61547:2009	Equipment for general lighting purposes - EMC immunity requirements
EN 50581:2012	Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

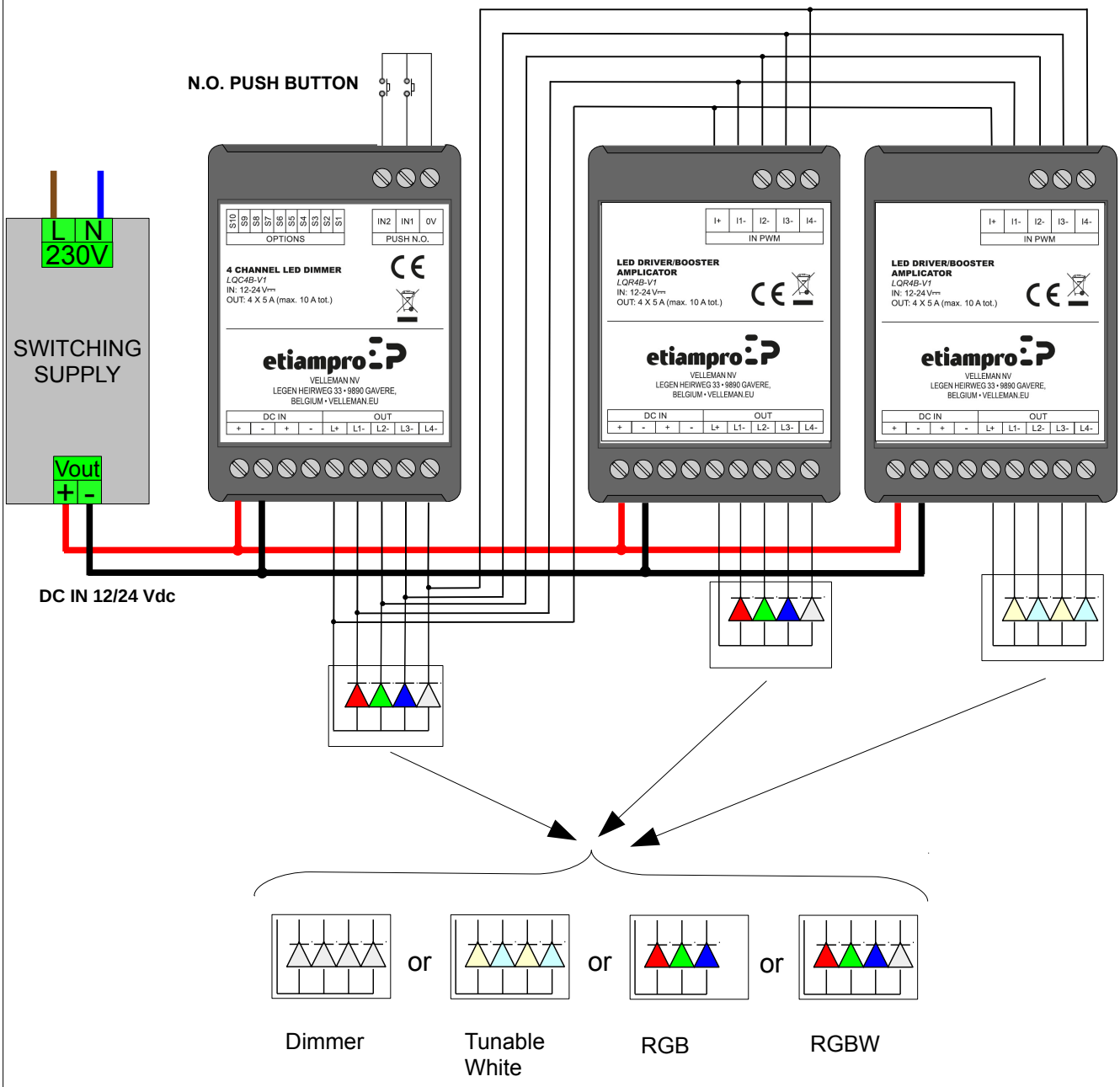
Technical Specifications

		Variants		
		Constant voltage		
		4 channels		
Supply voltage		min: 10,8 Vdc .. max: 26.4 Vdc		
Input current		Max 10A		
Output voltage		= Vin		
Output current [1]			max 5 A/ch [1]	max 10 A total [1]
Nominal power [1]	@12V		max 60 W/ch	max 120 W total
	@24V		max 120 W/ch	max 240 W total
Thermal shutdown		150 °C		
Input Frequencies Range D-PWM		250 ÷ 500 Hz		
Storage Temperature		min: -40 max: +60 °C		
Ambient Temperature [1]		min: -10 max: +40 °C		
Protection grade		IP20		
Wiring		2.5mm² solid - 1.5mm² stranded - 30/12 AWG		
Mechanical dimensions		54 x 88 x 25 mm		
Packaging dimensions		59 x 106 x 36 mm		
Weight		80g		

[1] *maximum value, dependent on ventilation conditions*

Installation

Connect into the input IN PWM (I+; I1-; I2-; I3-; I4-) of the DLA(s) multichannel the output OUT D-PWM (L+; L1-; L2-; L3-; L4-) of the DLX Family driver, connect the leds and lastly connect the switching supply (12-24V).



Technical Notes

Installation:
• Installation and maintenance must be performed only by qualified personnel in compliance with current regulations.
• The product must be installed inside an electrical panel protected against overvoltages.
• The product must be installed in a vertical or horizontal position with the cover / label upwards or vertically; Other positions are not permitted. It is not permitted to bottom-up position (with the cover / label updown).
• Keep separated the circuits at 230V (LV) and the circuits not SELV from circuits to low voltage (SELV) and from any connection with this product. It is absolutely forbidden to connect, for any reason whatsoever, directly or indirectly, the 230V mains voltage to the bus or to other parts of the circuit.

Power Supply:
• For the power supply use only a SELV power supplies with limited current, short circuit protection and the power must be dimensioned correctly.
In case of using power supply with ground terminals, all points of the protective earth (PE = Protection Earth) must be connected to a valid and certified protection earth.
• The connection cables between the power source "low voltage" and the product must be dimensioned correctly and they should be isolated from every wiring or parts at voltage not SELV. Use double insulated cables.
• Dimension the power supply for the load connected to the device. If the power supply is oversized compared with the maximum absorbed current, insert a protection against over-current between the power supply and the device.
• For the constant current output, the voltage of LED module (Vf) must be less of 5V at the voltage of power supply.

Command:
• The length and type of the connection cables between the Master dimmer Dalcnet and input "PWM IN" of the Booster must be less than 10m; the cables must be dimensioned correctly and they should be isolated from every wiring or parts at voltage not SELV. Use double insulated shielded and twisted cables.
• All the devices and the control signal connect at the product must be SELV (the devices connected must be SELV or supply a SELV signal)

Outputs:
• The length of the connection cables between the product and the LED module must be less than 10m; the cables must be dimensioned correctly and they should be isolated from every wiring or parts at voltage not SELV. Is preferable to use shielded and twisted cables.