

**FEATURES**

- BOOSTER
- DC Input: 12/24/48 Vdc
- Command: D-PWM
- D-PWM signal amplifier
- Voltage or Current outputs
- Typical Efficiency > 95%
- Adjusting the brightness up to completed off
- Extended temperature range
- 100% Test functional – 5 Years warranty

→ For the whole and updated **Device Manual** refer to producer's website: <http://www.dalcnet.com>

**Constant currents variants (common anode)**

Application: Booster

CODE	Supply voltage	Output	Command	
DLA1248-1CC350	12-48V DC	1 x 350mA	D-PWM	BOOSTER
DLA1248-1CC500	12-48V DC	1 x 500mA	D-PWM	BOOSTER
DLA1248-1CC700	12-48V DC	1 x 700mA	D-PWM	BOOSTER
DLA1248-1CC950	12-48V DC	1 x 950mA	D-PWM	BOOSTER

Any current value from 350mA and 950mA available on demand.

**Constant voltage variants (common anode)**

Application: Booster

CODE	Supply voltage	Output	Command	
DLA1248-1CV	12-48V DC	1 x 8A max	D-PWM	BOOSTER

**Protections**

<b>OTP</b>	Over temperature protection
<b>OVP</b>	Over voltage protection
<b>UVP</b>	Under voltage protection
<b>RVP</b>	Reverse polarity protection
<b>IFP</b>	Input fuse protection
<b>SCP</b>	Short circuit protection
<b>OCF</b>	Open circuit protection
<b>CLP</b>	Current limit 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 $\leq 16$ 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 $\leq 16$ 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

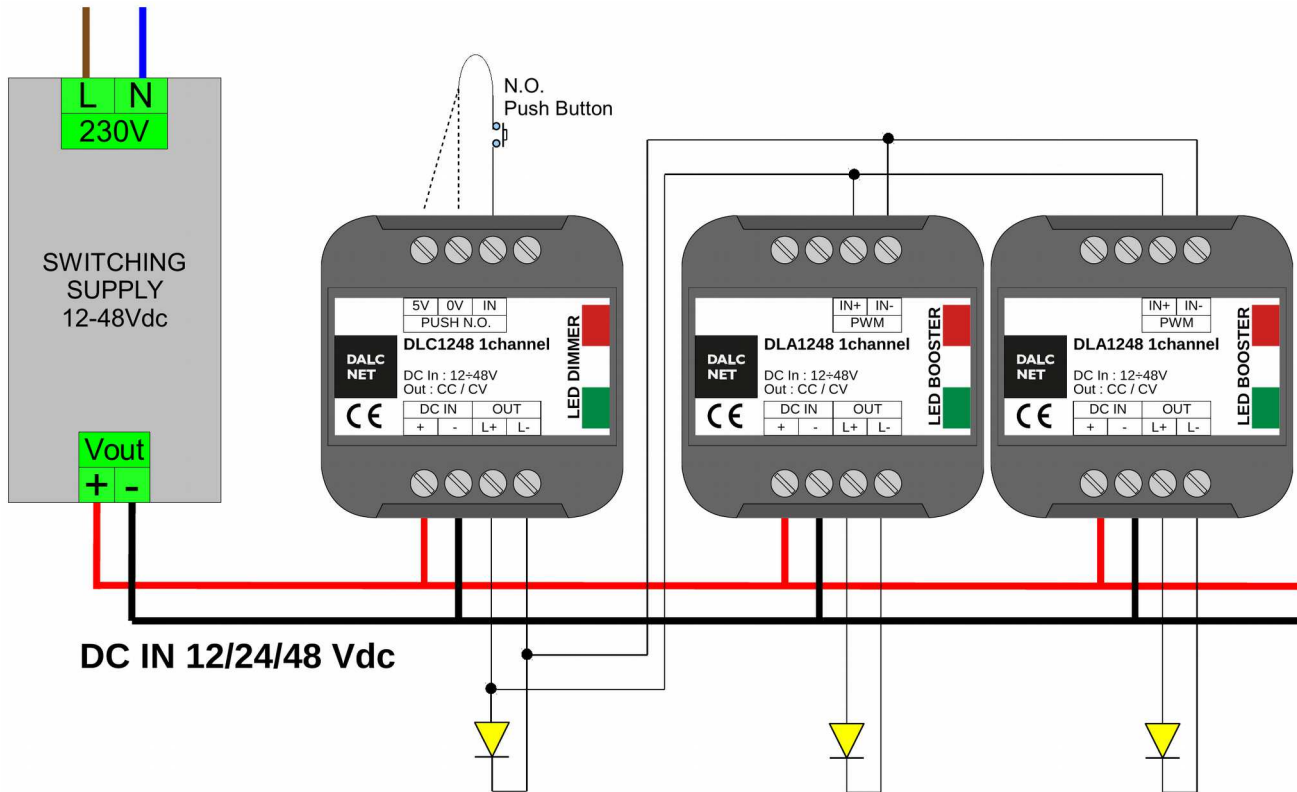
**Technical Specifications**

		Variants				
		Constant current				Constant voltage
		350mA	500mA	700mA	950mA	
Supply voltage		min: 10,8 Vdc .. max: 52,8 Vdc				
Output voltage		min: $V_{in}/4$ max: $V_{in}-0,9V$				= $V_{in}$
Output current		350 mA	500 mA	700 mA	950mA	max 8 A peak <sup>1)</sup> max 7,5A @20°C <sup>1)</sup> max 6,5A @40°C <sup>1)</sup>
Nominal power <sup>1)</sup>	@12V	4.2 W	6 W	8.4 W	11.4 W	78 W
	@24V	8.4 W	12 W	16.8 W	22.8 W	156 W
	@48V	16.8 W	24 W	33.6 W	45.6 W	312 W
Thermal shutdown		150 °C				150 °C
Input Frequencies Range D-PWM		250 ÷ 500 Hz				
Storage Temperature		min: -40 max: +60 °C				
Ambient Temperature <sup>1)</sup>		min: -10 max: +40 °C				
Protection Grade		IP20				
Wiring		2.5mm <sup>2</sup> solid - 1.5mm <sup>2</sup> stranded - 30/12 AWG				
Mechanical dimensions		44 x 57 x 25 mm				
Packaging dimensions		56 x 68 x 35 mm				
Weight		40g				

<sup>1)</sup> maximum value, dependent on ventilation conditions

**Installation**

Connect the switching supply (12-48 V), connect the DLA(s) to the D-PWM output, connect the leds.



DLA1248-1CC350  
 DLA1248-1CC500  
 DLA1248-1CC700  
 DLA1248-1CC950  
 DLA1248-1CV

DLA1248-1CC350  
 DLA1248-1CC500  
 DLA1248-1CC700  
 DLA1248-1CC950  
 DLA1248-1CV



## 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.