

**FEATURES**

- BOOSTER
- DC Input: 12/24/48 Vdc or 12/24 Vdc
- Command: D-PWM
- D-PWM signal amplifier
- Current or Voltage outputs for R-L-C loads, DLA1248 CC and CV variant
- Voltage outputs for R loads, DLA1224-1CV variant
- 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>

➤ **COSTANT CURRENT 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	
DLA1224-1CV	12-24V DC	1 x 10A max	D-PWM	BOOSTER
DLA1248-1CV	12-48V DC	1 x 6,5A max	D-PWM	BOOSTER

➤ **PROTECTIONS**

		DLA1248-1CV	DLA1224-1CV	DLA1248-1CC
OTP	Over temperature protection(*)	✓		✓
OVP	Over voltage protection(**)	✓	✓	✓
UVP	Under voltage protection(**)	✓	✓	✓
RVP	Reverse polarity protection(**)	✓	✓	✓
IFP	Input fuse protection(**)	✓	✓	✓
SCP	Short circuit protection	✓		
OCP	Open circuit protection			✓
CLP	Current limit protection	✓		✓

(*) Thermal Protection on the output channel in case of high temperature. The thermal intervention is detected by transistor (> 150°C) or current regulation (depending of the booster variant).

(**) Only control Logic protection

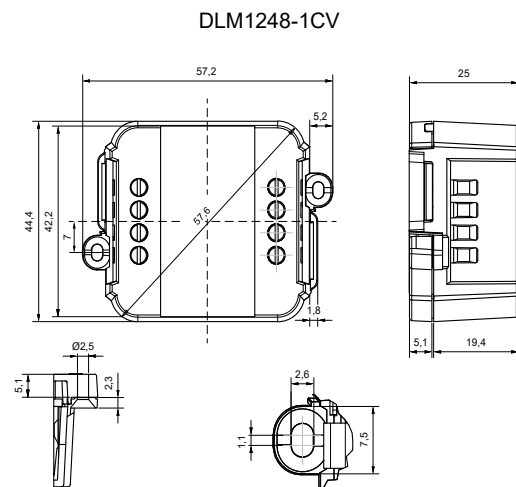
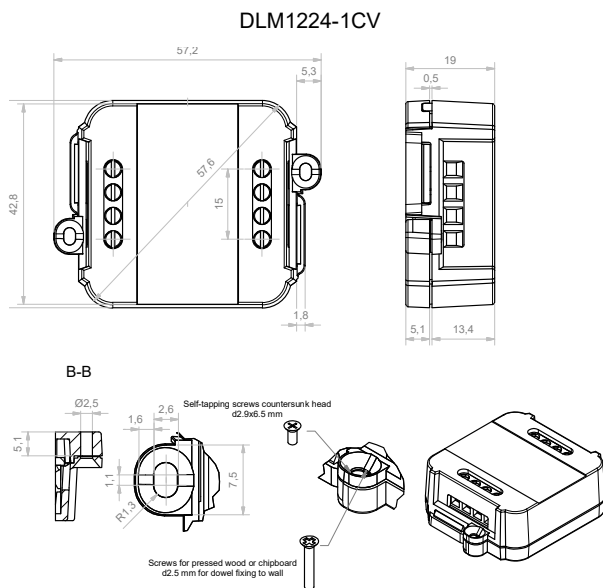
➤ **REFERENCE STANDARDS**

EN 61347-1	Lamp controlgear - Part 1: General and safety requirements
EN 55015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
EN 61547	Equipment for general lighting purposes - EMC immunity requirements
EN 50581	Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

➤ **TECHNICAL SPECIFICATIONS**

		Variant					
		Constant current				Constant Voltage	
		350mA	500mA	700mA	950mA	12/24/48 Vdc	12/24 Vdc
Supply voltage		min: 10,8 Vdc .. max: 52,8 Vdc				min: 10,8 Vdc max: 52,8 Vdc	min: 10,8 Vdc max: 26,4 Vdc
Output voltage		min: Vin/4 max: Vin-0,9V				= Vin	= Vin
Output current		350 mA	500 mA	700 mA	950mA	max 6,5A @40°C¹⁾ max 7,5A @20°C ¹⁾ max 8 A picco ¹⁾	10A
Nominal power ¹⁾	@12V	4.2 W	6 W	8.4 W	11.4 W	78 W	120 W
	@24V	8.4 W	12 W	16.8 W	22.8 W	156 W	240 W
	@48V	16.8 W	24 W	33.6 W	45.6 W	312 W	-
Power loss in stand by mode		<500mW				<500mW	
Type of Load		R – L – C				R – L – C	R
Thermal shutdown		150 °C				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					
Wiring		2.5mm ² solid – 2.5mm ² stranded - 30/12 AWG				2.5mm ² solid - 2.5mm ² stranded - 30/12 AWG	1.5mm ² solid - 1mm ² stranded - 30/16 AWG
Wire preparation length		5.5 ÷ 6.5 mm				5.5 ÷ 6.5 mm	5 ÷ 6mm
Protection Grade		IP20					
Casing material		Plastic					
Mechanical dimensions		44 x 57 x 25 mm				44 x 57 x 25 mm	44 x 57 x 19 mm
Packaging unit (pieces/unit)		Single Carton Box 1pz				Carton Box 21pz	Carton Box 10pz
Packaging dimensions		56 x 68 x 35 mm				263 x 178 x 82 mm	164 x 117 x 70 mm
Weight		43g				1000g	306g

¹⁾ maximum value, dependent on ventilation conditions

MECHANICAL DIMENSION**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.