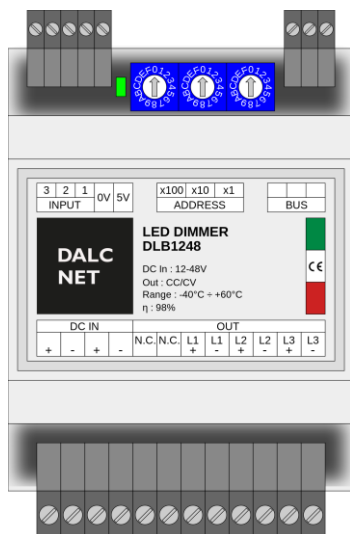


**FEATURES**

- DC Input 12-24-48 Vdc
- Bus command: DMX512, DALI, MODBUS
- Local command: push-button, potentiometer, 0÷10V, switch.
- Control: ON/OFF, white, tunable white, RGB or RGBW color control
- Voltage or current outputs
- Typical efficiency 98%
- Bias and Leakage current reset circuit
- Soft start and soft stop
- Optimized output curve
- Extended temperature range
- 100% burn-in test - 5 years warranty

Constant current variants (common anode)

CODE	Supply Voltage	Output	Channels	Command	
DLB1248-3CC-DMX	12÷48V DC	1x1050/1500/2100 mA 3x350/500/700 mA	3	DMX button / 0÷5V / 0÷10V / switch	PROFESSIONAL
DLB1248-3CC-MODBUS	12÷48V DC	1x1050/1500/2100 mA 3x350/500/700 mA	3	MODBUS RTU button / 0÷5V / 0÷10V / switch	PROFESSIONAL
DLB1248-3CC-DALI	12÷48V DC	1x1050/1500/2100 mA 3x350/500/700 mA	3	DALI button / 0÷5V / 0÷10V / switch	PROFESSIONAL
DLB1248-4CC-DMX	12÷48V DC	1x1400/2000/2800 mA 4x350/500/700 mA	4	DMX button / 0÷5V / 0÷10V / switch	PROFESSIONAL
DLB1248-4CC-MODBUS	12÷48V DC	1x1400/2000/2800 mA 4x350/500/700 mA	4	MODBUS RTU button / 0÷5V / 0÷10V / switch	PROFESSIONAL
DLB1248-4CC-DALI	12÷48V DC	1x1400/2000/2800 mA 4x350/500/700 mA	4	DALI button / 0÷5V / 0÷10V / switch	PROFESSIONAL

- Application (3-channels output): ON/OFF, Dimmer, Tunable White, RGB
- Application (4-channels output): ON/OFF, Dimmer, Tunable White, RGB+W

Constant voltage variants (common anode)

CODE	Supply Voltage	Output	Channels	Command	
DLB1248-3CV-DMX	12÷48V DC	1x15A max 3x5A max	3	DMX button / 0÷5V / 0÷10V / switch	PROFESSIONAL
DLB1248-3CV-MODBUS	12÷48V DC	1x15A max 3x5A max	3	MODBUS RTU button / 0÷5V / 0÷10V / switch	PROFESSIONAL
DLB1248-3CV-DALI	12÷48V DC	1x15A max 3x5A max	3	DALI button / 0÷5V / 0÷10V / switch	PROFESSIONAL
DLB1248-4CV-DMX	12÷48V DC	1x20A max 4x5A max	4	DMX button / 0÷5V / 0÷10V / switch	PROFESSIONAL
DLB1248-4CV-MODBUS	12÷48V DC	1x20A max 4x5A max	4	MODBUS RTU button / 0÷5V / 0÷10V / switch	PROFESSIONAL
DLB1248-4CV-DALI	12÷48V DC	1x20A max 4x5A max	4	DALI button / 0÷5V / 0÷10V / switch	PROFESSIONAL

- Application (3-channels output): ON/OFF, Dimmer, Tunable White, RGB
- Application (4-channels output): ON/OFF, Dimmer, Tunable White, RGB+W

Protections

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

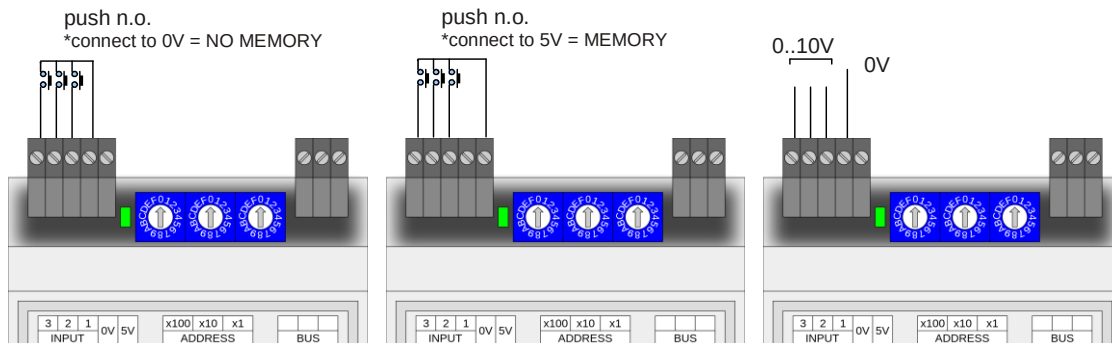
Reference Standards

IEC/EN 61347-1	Lamp control gear - Part 1: General and safety requirements
IEC/EN 61347-2-13	Lamp control gear - Part 2-13: Particular requirements for d.c. or a.c. supplied electronic control gear for LED modules
IEC/EN 62384	DC or AC supplied electronic control gear for LED modules - Performance requirements
IEC 61547	Equipment for general lighting purposes - EMC immunity requirements
IEC 61000-3-2	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)
EN 55015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
IEC/EN 62386-101	Digital addressable lighting interface - Part 101: General requirements - System
IEC/EN 62386-102	Digital addressable lighting interface - Part 102: General requirements - Control gear
IEC/EN 62386-207	Digital addressable lighting interface - Part 207: Particular requirements for control gear - LED modules (device type 6)
ANSI E 1.3	Entertainment Technology - Lighting Control Systems - 0 to 10V Analog Control Specification
ANSI E1.11	Entertainment Technology - USITT DMX512-A - Asynchronous Serial Digital Data Transmission Standard for Controlling Lighting Equipment and Accessories
ANSI E1.20	Entertainment Technology-RDM-Remote Device Management over USITT DMX512 Networks
-	MODBUS APPLICATION PROTOCOL SPECIFICATION V1.1b

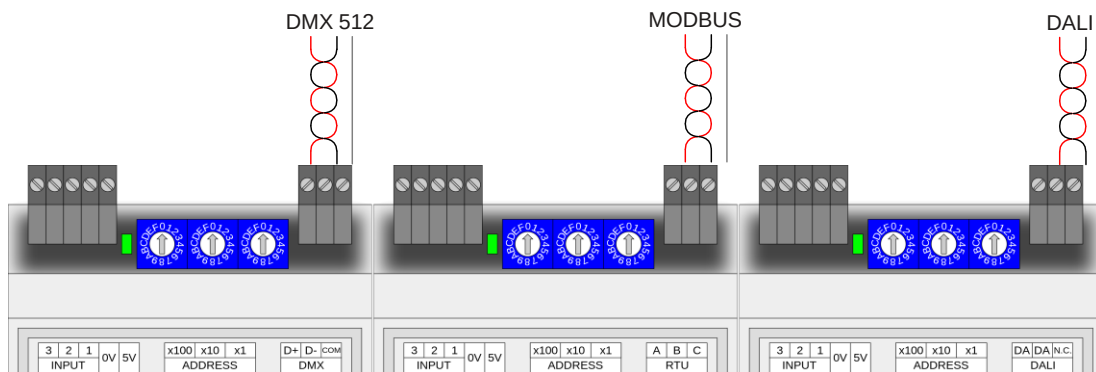
Technical Specifications

	variant			
	Constant Current		Constant Voltage	
	3 channels	4 channels	3 channels	4 channels
Supply Voltage	DC min: 10.8 VDC .. max: 50,2 VDC			
Input current	max 2,1 A	max 2,8A	max 15A	max 20A
No-load power	< 0,3 W			
Output Voltage	min: Vin/4 max: Vin-0,6V		= Vin	
Output current	350/500/700 mA/ch		max 5 A/ch	
	max 2,1 A total	max 2,8 A total	max 15 A total	max 20 A total
Nominal power @12V	25,2 W	33,6 W	180 W	240 W
Nominal power @24V	50,4 W	67,2 W	360 W	480 W
Nominal power @48V	100,8 W	134,4 W	720 W	960 W
Thermal shutdown	150 °C		150 °C	
Typ. efficiency	98%		98%	
PWM dimming frequency	250Hz			
PWM resolution	16 bit			
Storage temperature	min: -40 max: +60 °C			
Working temperature	min: -40 max: +60 °C			
Protection Grade	IP10			
Weight	125g			
Mechanical dimensions	72 x 92 x 62 mm - DIN RAIL 4mod.			

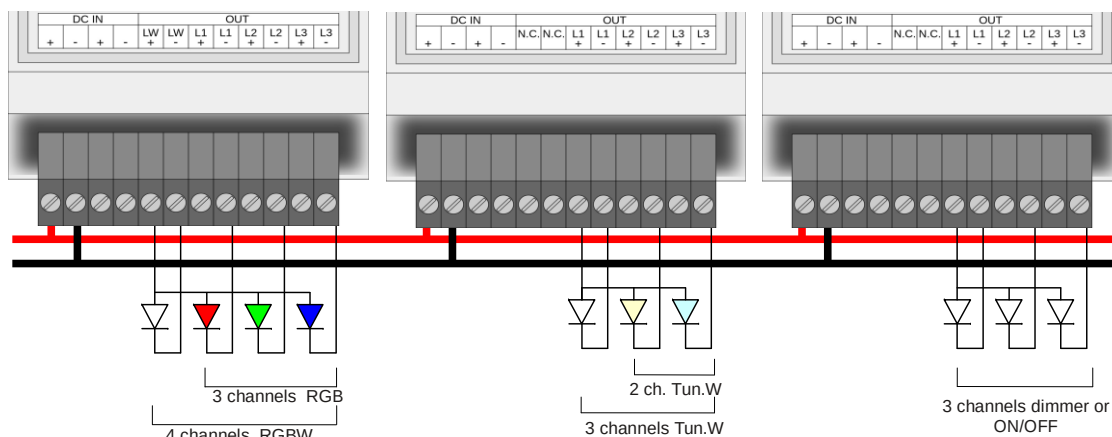
Local commands installation



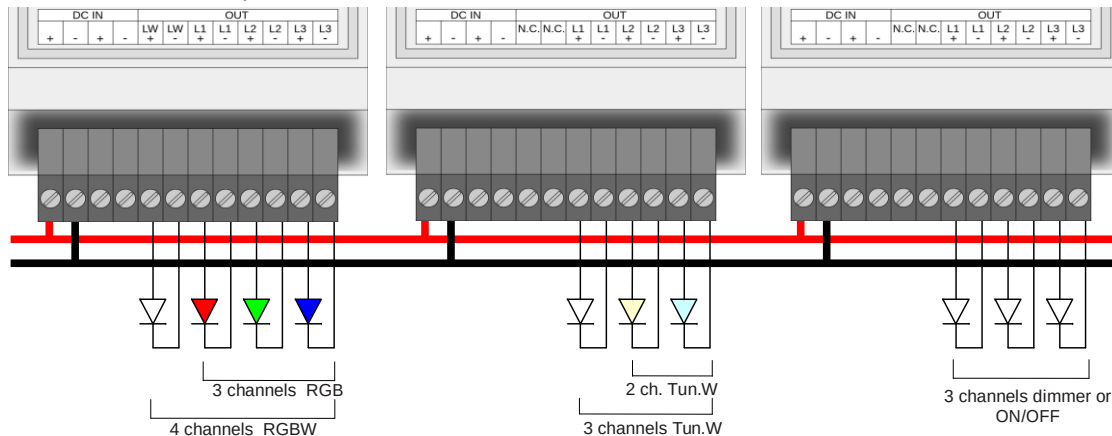
BUS commands installation



Power installation with commonanode



Power installation with independent connections



Configuration

INDICATION LED FUNCTION	
OFF	NO power or bus fault
Blinking	bus not connected
ON	bus connected

JUMPERS SETUP																				
CC variant: 350mA CV variant: unused	<table><tr><td>A</td><td>..</td></tr><tr><td>B</td><td>..</td></tr><tr><td>C</td><td></td></tr><tr><td>D</td><td></td></tr></table>	A	..	B	..	C		D			PUSH BUTTONS inputs	<table><tr><td>A</td><td></td></tr><tr><td>B</td><td></td></tr><tr><td>C</td><td>..</td></tr><tr><td>D</td><td>..</td></tr></table>	A		B		C	..	D	..
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CC variant: 500mA CV variant: unused	<table><tr><td>A</td><td>■</td></tr><tr><td>B</td><td>..</td></tr><tr><td>C</td><td></td></tr><tr><td>D</td><td></td></tr></table>	A	■	B	..	C		D		10K POTENTIOMENETS inputs	<table><tr><td>A</td><td></td></tr><tr><td>B</td><td></td></tr><tr><td>C</td><td>■</td></tr><tr><td>D</td><td>..</td></tr></table>	A		B		C	■	D	..	
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CC variant: 700mA CV variant: unused	<table><tr><td>A</td><td>..</td></tr><tr><td>B</td><td>■</td></tr><tr><td>C</td><td></td></tr><tr><td>D</td><td></td></tr></table>	A	..	B	■	C		D		0..10V inputs	<table><tr><td>A</td><td></td></tr><tr><td>B</td><td></td></tr><tr><td>C</td><td>..</td></tr><tr><td>D</td><td>■</td></tr></table>	A		B		C	..	D	■	
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non usato unused	<table><tr><td>A</td><td>..</td></tr><tr><td>B</td><td>..</td></tr><tr><td>C</td><td></td></tr><tr><td>D</td><td></td></tr></table>	A	..	B	..	C		D			SWITCH inputs	<table><tr><td>A</td><td></td></tr><tr><td>B</td><td></td></tr><tr><td>C</td><td>■</td></tr><tr><td>D</td><td>■</td></tr></table>	A		B		C	■	D	■
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Selector 1 = PERSONALITY (Selectors 2,3 = BUS ADDRESS)

6 	7 
8 	9 
A 	B 
C 	D 
E 	F 

Technical Notes

- For the specific functions of bus or local commands, view the function handbook available on the manufacturer's website.
- Installation and maintenance must be performed only by qualified personnel.
- The product must be installed inside an electrical panel
- Keep 230V cables separate from circuits to low voltage (SELV)
- To connect the input button, potentiometer, 0 .. 10V, is preferable to use shielded and twisted cables and do not exceed the recommended length of 10m.
- To connect the DMX512 bus, Modbus, DALI use cables as per specification of the respective protocols.
- It 'absolutely forbidden to connect, for any reason whatsoever, the 230V mains voltage to the bus or to other parts of the circuit.