

DDLEDC605GL

LED PWM Controller



Specification Sheet

Controllers > Multipurpose Controllers



Directly drive LED fittings with PWM voltage-mode outputs

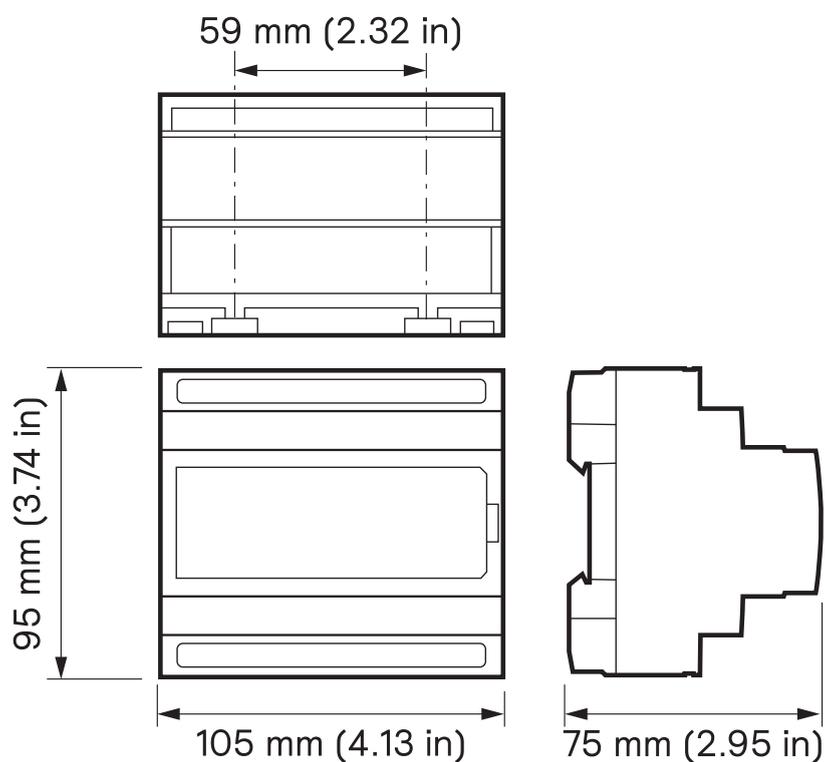
The Dynalite DDLEDC605GL is designed to control LED loads in decorative architectural lighting applications that require creative colour mixing and sequencing, with DMX512 capability to support the high chase speeds commonly found in decorative and display lighting. The six PWM common-anode voltage-mode outputs are suitable for directly driving high-intensity LED sources.

This controller is designed for connection to an external DC power supply, and can deliver a range of nominal output voltages.

Key Features

- **Designed for connection to external DC power supply** - Enables the unit to deliver a range of nominal output voltages.
- **Single or dual external DC supply** - Dual DC supply option overcomes single DIN rail power supply limitations and enables dual-voltage load control between groups 1-3 and 4-6.
- **DMX512 compatible** - Capable of receiving native DMX512 to support colour mixing or chase sequence applications commonly found in display lighting.
- **Diagnostic functionality** - Device online/offline status reporting.
- **Flexible mounting** - DIN rail mounting clips designed for installation into the distribution board supplying power to the controlled lighting circuits.
- **Passive cooling** - Fanless design reduces noise, power consumption, and maintenance costs.

Dimensions



Specifications

Electrical	
Supply Type	Regulated external DC supply SELV (CE/RCM) or Class 1/Class 2 (UL) See NFPA 70 (NEC) Article 225 and CSA 22.1 (CEC) Section 16 for Class 1/Class 2 voltage and current limitations. No dimmable sources or LED drivers.
Supply Voltage	Fixed Voltage 10-24 VDC
Supply Current	20 A
DyNet DC Output Voltage	12 VDC
DyNet DC Output Current	120 mA (Supply for approx. 6 UIs)
Outputs	6 x LED PWM
Output Voltage	10-24 VDC (Minus internal voltage drop of 0.25-0.5 V)
Output Current	10 mA to 5 A
Maximum Device Load	20 A
Electrical Protection	Thermal overload protection Short circuit protection
IEC Overvoltage Category	II

Control	
Communication Ports	1 x RS-485
Supported Protocols	DyNet DMX512 Rx
DMX Rx Channels	6
Dry Contact Inputs	1 (AUX)
User Controls	1 x service switch 8 x DMX start address DIP switch
Indicators	1 x service LED
Diagnostic Functions	Device online/offline status

Physical	
Dimensions	95 x 105 x 75 mm (3.74 x 4.13 x 2.95 in)
Packed Weight	1 kg (2.2 lb)
Construction	Polycarbonate DIN rail enclosure (6 unit)
Serial Ports	1 x RJ12 1 x 6-way screw terminal
Serial Port Conductor Size	0.3-2.5 mm ² (#22-12 AWG)
Load Terminals	12 x screw terminal
Load Terminal Conductor Size	≤2.5 mm ² (#12+ AWG)
Supply Terminals	3 x screw terminal
Supply Terminal Conductor Size	2.5-4 mm ² (#12-11 AWG)

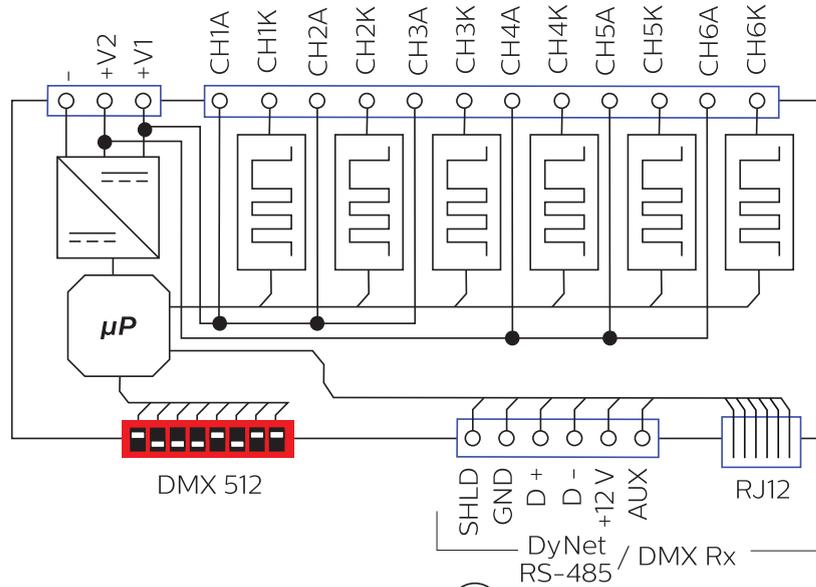
Environment	
Operating Temperature	0° to 40°C ambient (32° to 104°F)
Storage/Transport Temperature	-25° to 70°C ambient (-13° to 158°F)
Relative Humidity	≤90% non-condensing
IEC Pollution Degree	II
Installation Note	For indoor installation only

Compliance	
Certifications	CE, RCM, UL/cUL, FCC, ISED, UKCA
Sustainability	RoHS

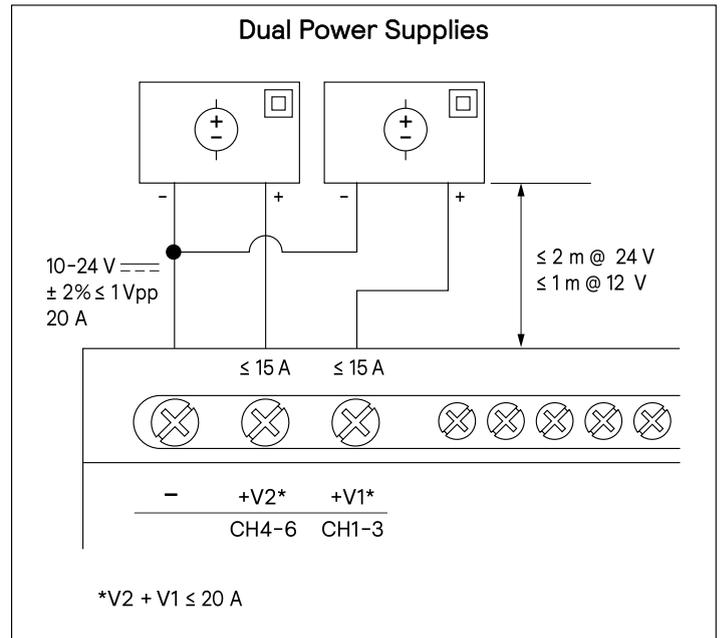
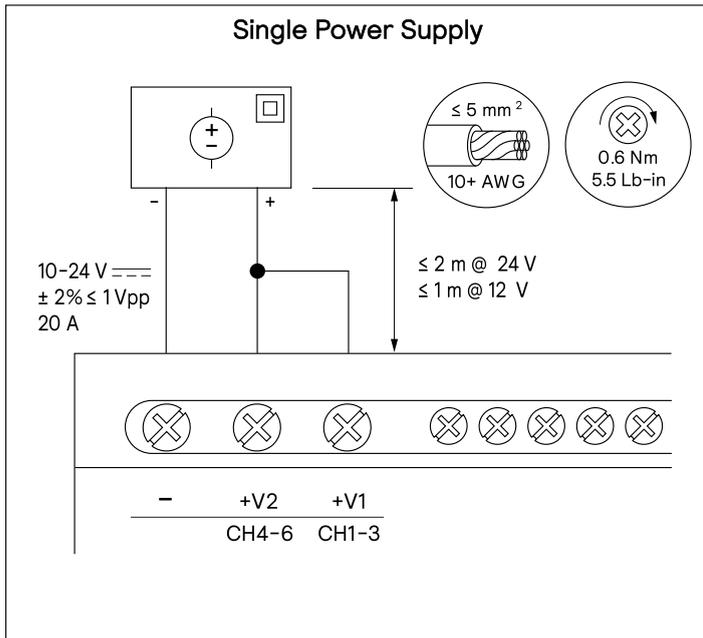


Electrical Drawing

 Class 1 or Class 2 (UL) / SELV (CE and RCM)
10-24 V \equiv 20 A



 12 V \equiv 120 mA
Class 2 (UL) / SELV (CE and RCM)



Ordering Codes

Product	12NC
DDLEDC605GL	913703061209