

DDLEDC605GL

LED PWM Controller



Specification Sheet

Controllers > Multipurpose Controllers



Directly drive LED fittings with PWM voltage-mode outputs

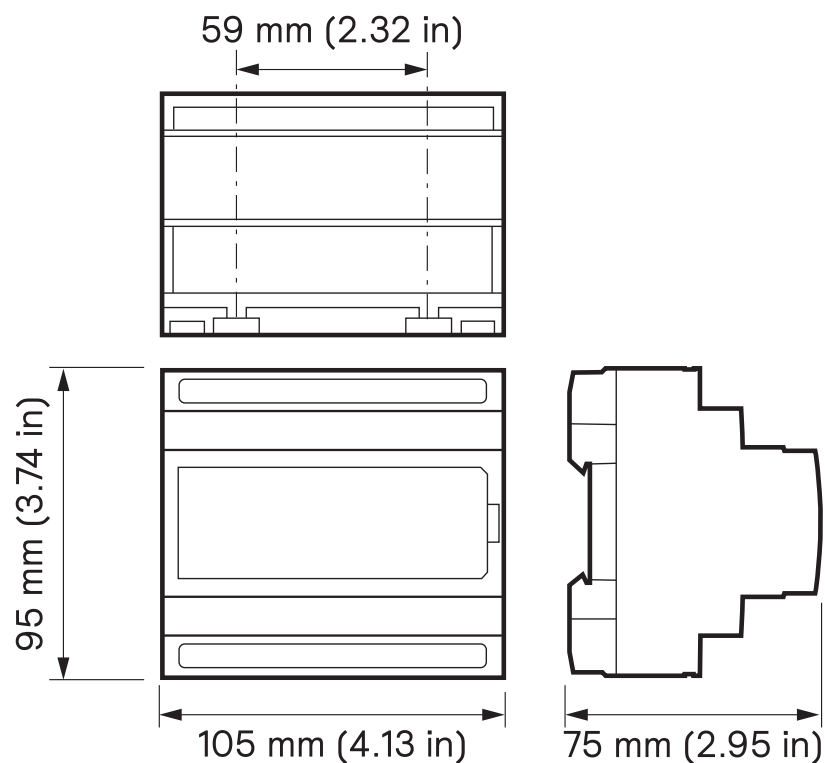
The Dynalite DDLEDC605GL is designed to control LED loads in decorative architectural lighting applications that require creative colour mixing and sequencing, with DMX512 capability to support the high chase speeds commonly found in decorative and display lighting. The six PWM common-anode voltage-mode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

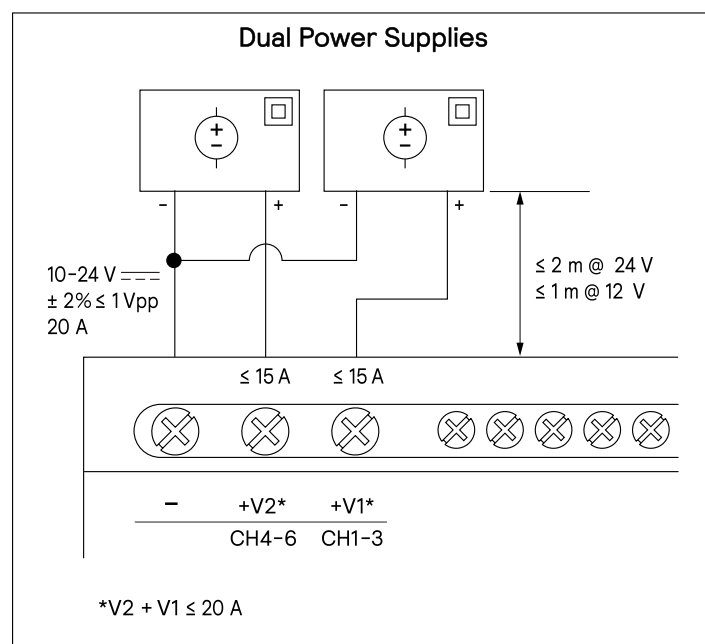
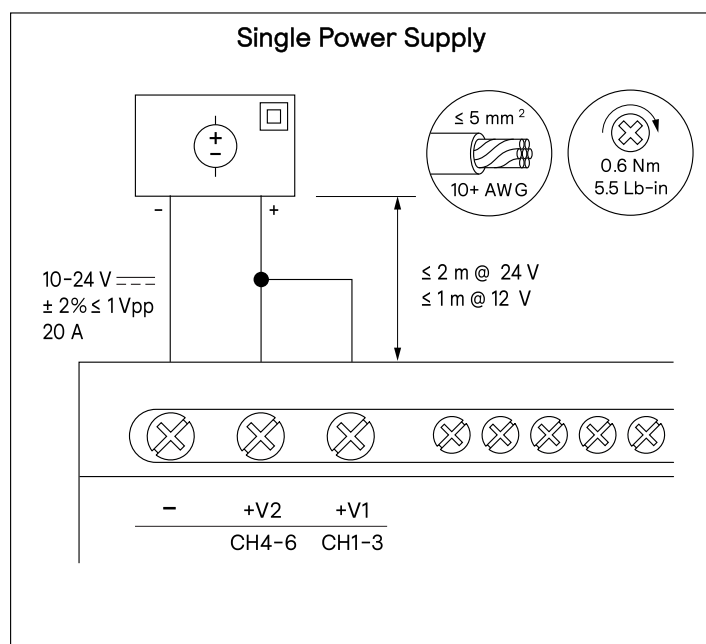
Control	
Communication Ports	1 x RS-485
Supported Protocols	DyNet DMX512 Rx
DMX Rx Channels	6
Dry Contact Inputs	1 (AUX)
User Controls	1 x service switch 8 x DMX start address DIP switch
Indicators	1 x service LED
Diagnostic Functions	Device online/offline status

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 mm² (#22-12 AWG)
Load Terminals	12 x screw terminal
Load Terminal Conductor Size	≤2.5 mm² (#12+ AWG)
Supply Terminals	3 x screw terminal
Supply Terminal Conductor Size	2.5-4 mm² (#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





Ordering Codes

Product	12NC
DDLEDC605GL	913703061209

Policies and Notices

Specific Data Notice

This Specific Data Notice applies to the Controllers as specified in this product specification sheet (the "**Controller**") that is part of or works with a Professional System offered by Signify for use in the European Union and supplements and/or corrects the Generic Data Notice For Professional Systems and Services that can be found at <https://www.signify.com/global/resources/policies-announcements> (the "**Generic Data Notice**") by providing additional and/or more specific details specific to this Controller.

Terms starting with a capital in this Specific Data Notice will have the meaning as attributed thereto in the Generic Data Notice, unless explicitly defined otherwise in this document.

When used in a Signify professional lighting system in combination with a Dynalite Gateway with either the Dynalite Switch App, Dynalite System Builder, Dynalite System Manager, or Dynalite Cloud, the Controller can generate the Data as specified below:

- Operational Data: Lighting control commands based on the configured control logic in the product via the DyNet network
- Sensor Data: This product does not generate any sensor data.

The type and volume and format of Data that is generated depends on the actual devices connected to the Controller, the product and/or software configuration. For further details on data generation capabilities of such devices, please check the product specification sheets of such devices.

The Data generated in this combination is communicated via the network to the gateway and is stored on the gateway. If configured to do so, the gateway can forward the Data to Dynalite Cloud or to Dynalite System Manager. For applicable retention period and means of access to Data that is Readily Available Data, please refer to the Dynalite Cloud software specification sheet. Data cannot be accessed directly from the Controller. Data can be accessed from the Gateway using Dynalite System Builder or directly from any of the APIs of the Gateway. The Gateway will persist the Data for 28 days on a rolling basis.

This Specific Data Notice may be changed by Signify from time to time. The current version of this notice will apply and can be obtained at request via the point of contact as indicated in paragraph 7 of the Generic Data Notice.