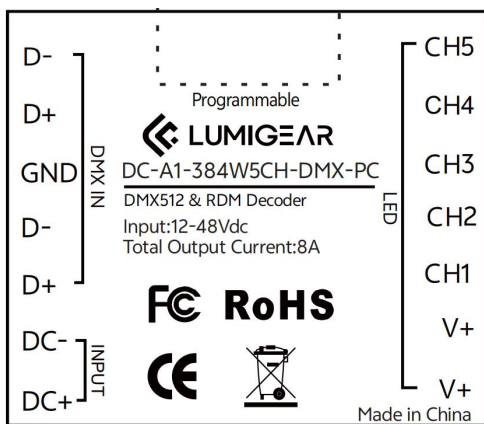
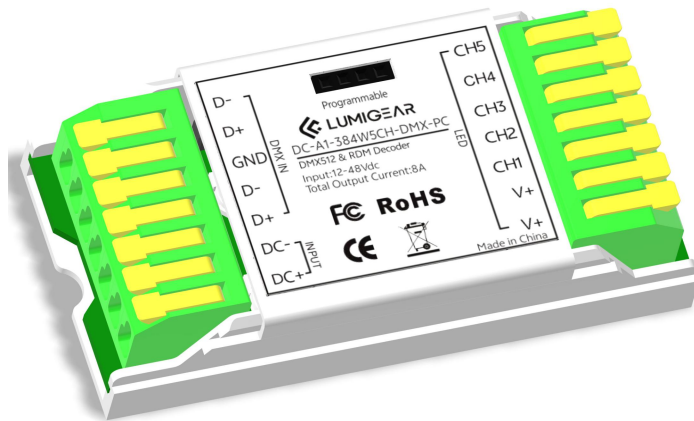




Features & Benefits

- Compact modular design with aluminum sheet metal case
- Silicone potting for improved thermal performance
- DMX512 RDM decoder, RDM function can realize intercommunication
- DMX512/RDM decoder with bidirectional communication between the DMX controller and decoder
- The RDM function allows configuration of the decoder address directly from the DMX controller console
- Five PWM output channels with common anode configuration. DMX channel modes from 1CH to 5CH
- Galvanic isolation
- Operating temperature: -40°C~+50°C

Programmable Feature:

- ◆ Device mode: Master and Decoder mode
- ◆ DMX Start Address
- ◆ DMX Mode : 8bit/16bit
- ◆ DMX Device Label
- ◆ Channel output: Enable/Disable
- ◆ Dimming curve gamma value from 0.1 to 9.9 settable
- ◆ Output PWM frequency from 500HZ ~ 35K HZ settable
- ◆ DMX address mapping
- ◆ Default brightness in no-signal mode
- ◆ Scene Number, Brightness level, scene speed
- ◆ Min Dimming Ratio
- ◆ OTP point

Safety Instructions

DO NOT install the device while power is applied.

Model List

Model Name	Rated Input Voltage	Max Output Power(Total)	Output Current /Channel	Output Current /Total	Dimension
DC-A1-384W5CH-DMX-PC	12-48VDC	384W max.	8A	8A	65*31*15.2 mm 2.5*1.2*0.6 in.

Programming

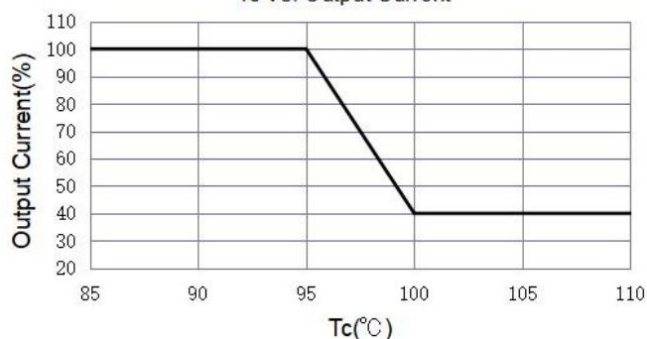
The driver can be programmed through the programming port.

Programming software	"LUMIGEAR Programming Tool"	
Programming tool	"LUMIGEAR Toolbox"	
No.	Item	Default Setting
1	Device mode: Master and Decoder mode	Decoder mode
2	DMX Start Address	1
3	DMX mode: 8bit , 16bit settable	16bit
4	DMX Device Label	TBD
5	Channel output: Enable/Disable	Enable
6	Dimming Curve gamma value from 0.1 to 9.9 settable	1.0
7	Output PWM frequency from 500HZ ~ 35K HZ settable	16K Hz
8	DMX address mapping	1-5
9	Default brightness in no-signal mode	100%
10	Scene Number	0
11	Brightness level	8
12	Scene speed	1
13	Min Dimming Ratio	0.1%
14	OTP point	See "Protection" section
Programming Interface	PGT-USB-TPAC-A	
Programming cables	PGT-USB-M4P2	

Protection

Over Temp. Protection	TOTP	Programmable Current decrease linearly when hotspot greater than TOTP, please see OTP curve		95		°C
Short Circuit Protection	The unit will recover automatically after fault conditions is removed.					
Output Reverse Polarity	Will not damage the LED driver but may damage the LED load.					

Tc Vs. Output Current



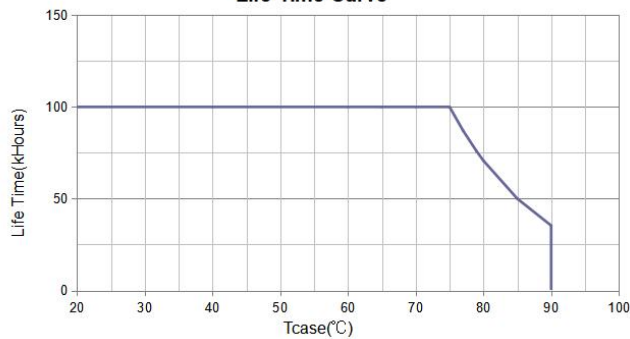
Environment

Storage Temperature	TStorage	Humidity: 5% RH to 95% RH	-40	-	+75	°C
Ambient Operating Temperature	Ta		-40	-	+50	°C
Max. Case Temperature	Tc	Hot spot on case			90	°C
Operating Relative Humidity	Ha	Non-Condensing	10		90	%
Acoustic Noise		Measured from 1 meter, at 100% and min light output.			24	dBA
Cooling	Convection Cooling					
IP environmental rating	IP20					
Environmental Rating	Dry and damp UL approved					

Others

Life Time	TLife	Full Load, 70°C case temperature,	50			kHrs
MTBF	TMTBF	Full Load, 25°C ambient temperature	200			kHrs
Net Weight	WNET			TBD		g
Warranty	5 Years Warranty at Tc ≤70°C					
Isolation	Input - Output: Non-isolated Input / Output- Control: 2500Vac					

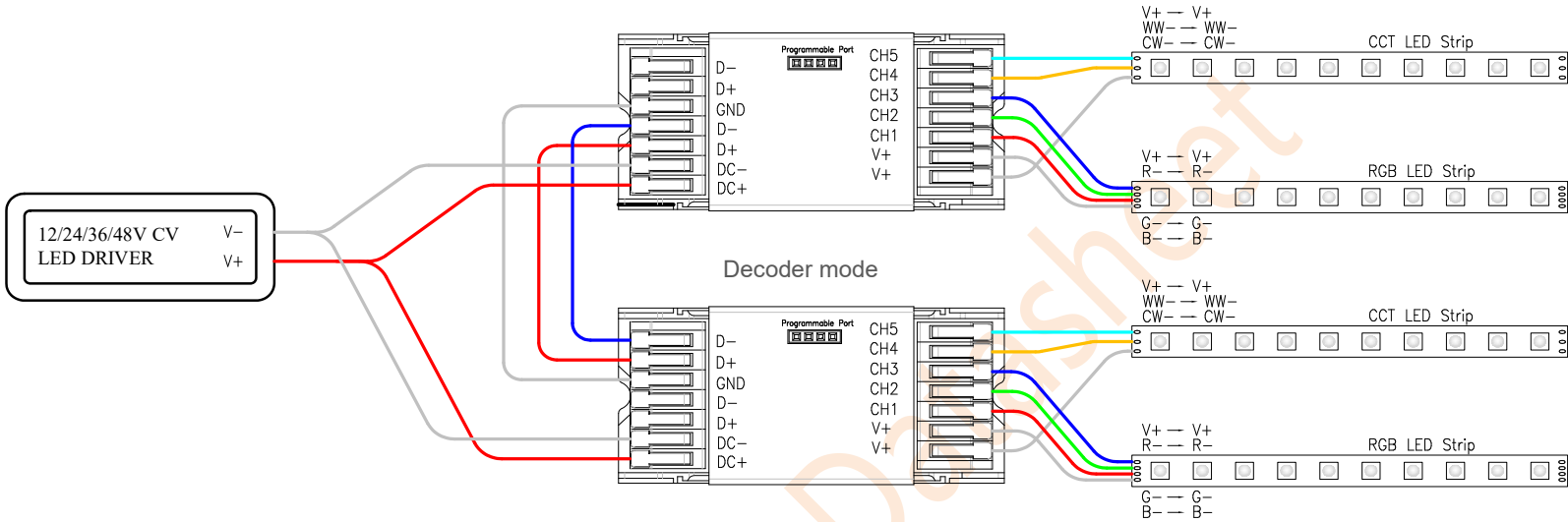
Life Time Curve



Wiring Diagram

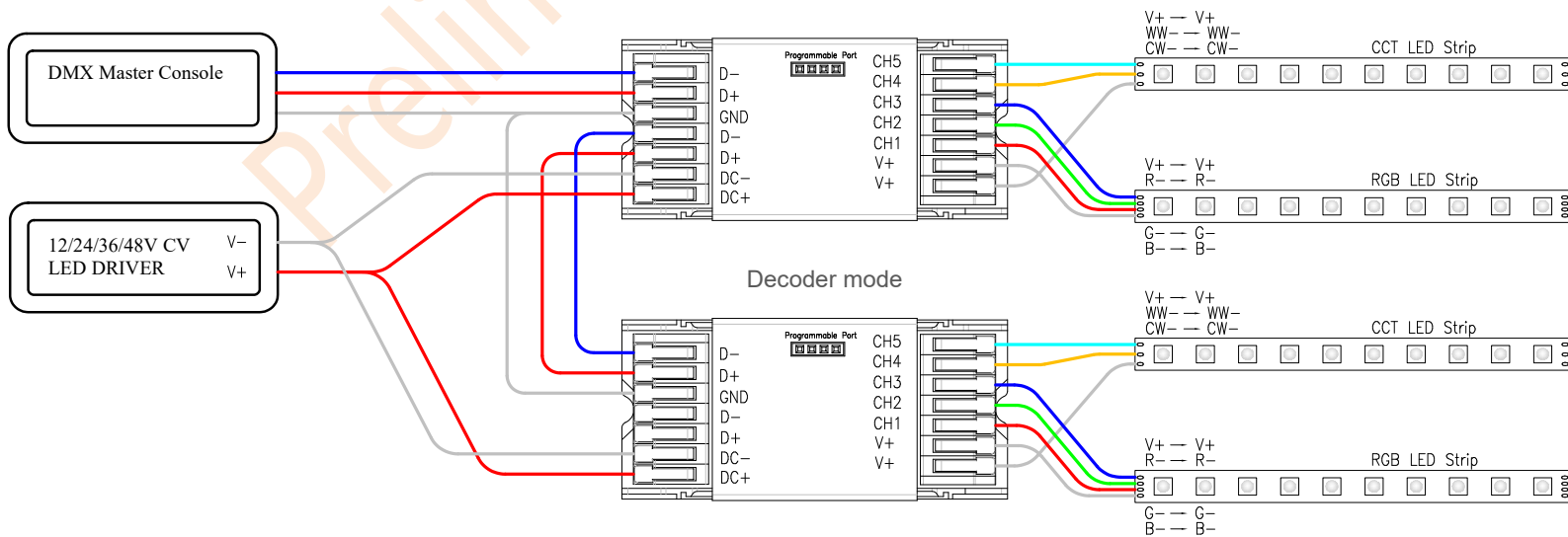
Work as Master mode:

Master mode



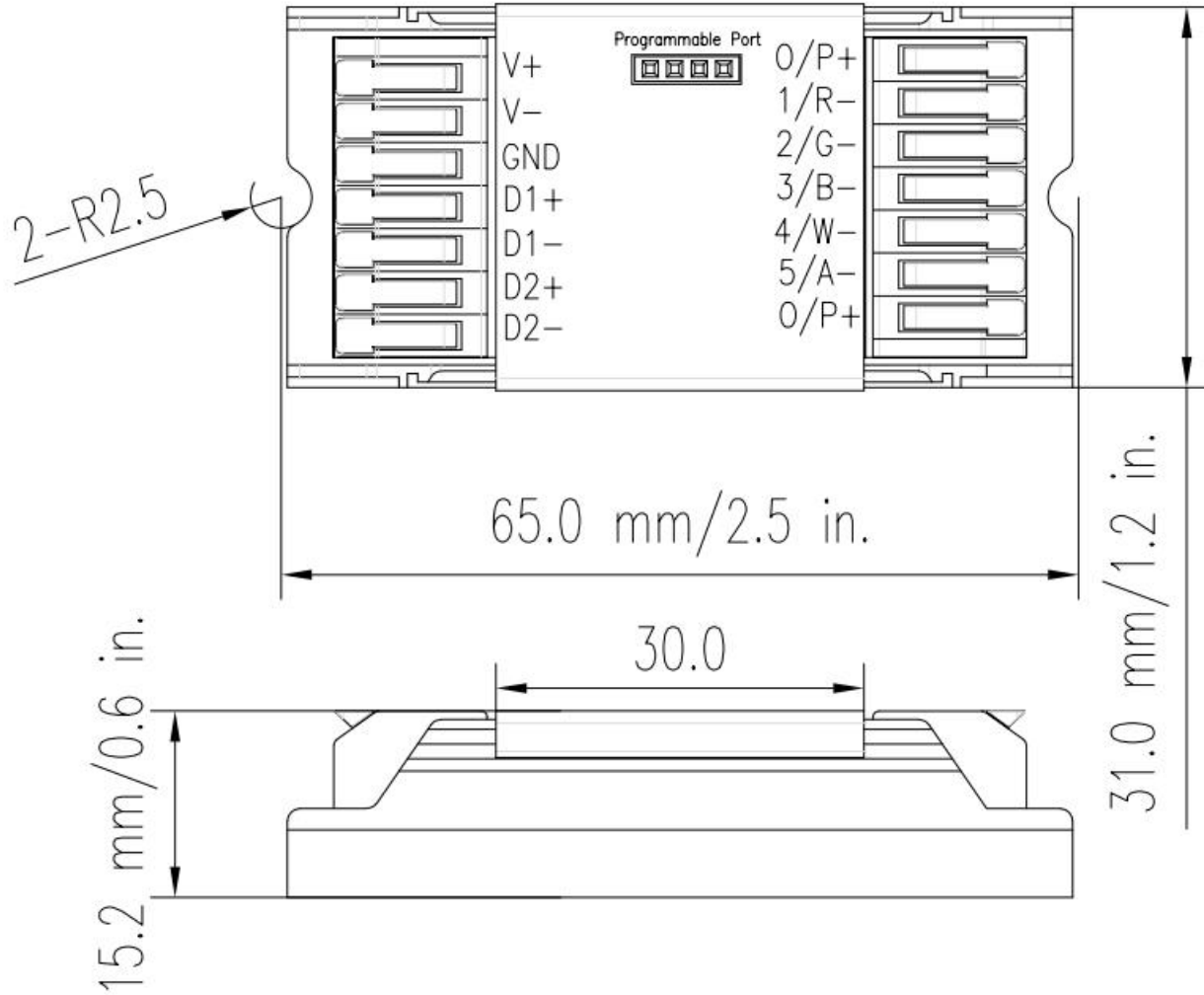
Work as Decoder mode:

Decoder mode



Mechanical Drawing:

Default tolerance: $\pm 1\text{mm}$



Pre