

## LED Dimmable Driver

- Output Current *Programmable* LED Driver
- 22 ~ 40W Power Rating

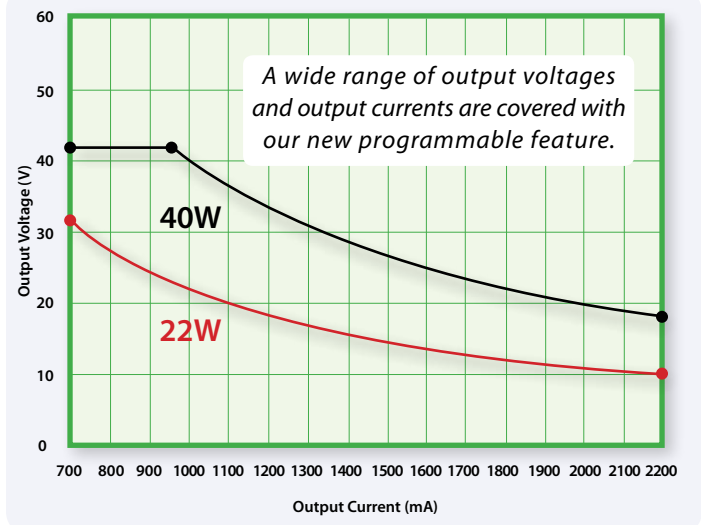
### Features:

- Programmable current can be adjusted prior to installation\*
- 0~10 Low Voltage Dimming Function
- Comprehensive protection against short-circuit, overvoltage, overload and over temperature
- IP66 rating for use in environments where dust or moisture is a concern
- High Efficiency



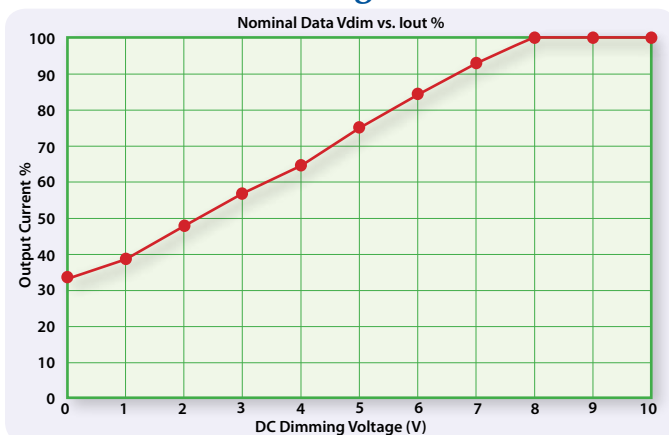
The new LED Programmable Driver from NMB offers a 22 ~ 40W power rating, 0 ~ 10V voltage dimming, high efficiency, and a user friendly programmable capability that facilitates rapid modification for customer specific applications. Utilizing the practical programming kit (available separately), which includes a programming unit and a USB cable, the desired output current levels can be easily preset or adjusted as your application develops. The CLSD002A programmable model is designed for retail lighting and commercial applications, product displays, industrial spaces, and environments where dust or moisture is a concern.

### Programmable Range



\*Note: Programming the current of the CLSD Series Drivers requires the use of the CLSD005 Programming Box plus NMB's LED Driver Set-up Application Software. Please refer to our website at [www.nmbtc.com/lighting](http://www.nmbtc.com/lighting) for additional information.

### Dimming Ratio



# NMB

[www.nmbtc.com/lighting](http://www.nmbtc.com/lighting)

## LED Driver Programmable Output Current Coverage

## LOW &amp; HIGH CURRENT LED DRIVER - 22W~40W POWER RATING

PART NUMBER	DC Voltage Output [Vdc]		Current Output [mA]	
	Min.	Max.	Min.	Max.
CLSD002A	10	42	700	2200

## ELECTRICAL SPECIFICATIONS

Universal AC Input Voltage	90-277 (Typical 100 VAC/240 VAC)
Input Frequency	50/60Hz
Inrush Current	<45A (Max)
Dimming Ratio	35%
Input Power at No Load	1.5W (Max)
Input Power at Full Load	50W (Max)
Efficiency at Full Load	87%

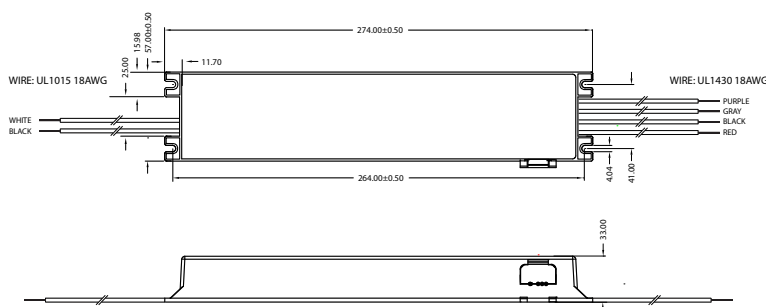
## CONTROL &amp; PROTECTION

Current Limit Protection	Programmable (using CLSD005 Programming Box)
Protection	Short Circuit / Overvoltage / Overtemperature

## ENVIRONMENTAL, SAFETY &amp; MECHANICAL SPECIFICATIONS

CRITERIA	SPECIFICATION	REFERENCE
Power Factor	>0.9	
Harmonics	Class C	IEC 61000-3-2
Isolation Voltage	3000VAC	Minimum
Surge Immunity	Level 3	IEC 61000-4-5
Temperature (around case)	-20°C to 60°C	Operating
Storage Temperature	-40°C to 85°C	Non-Operating
Lifetime (Minimum hours)	100,000	At Maximum Load (45°C 110V)
Weight	800g	Maximum
Ingress Protection	IP66	
Safety: UL	8750 / 1310	Approved
CSA	C22.2 No. 107 C22.2 No. 223	Approved
EN	61347-1 / 61347-2-13	Approved
EMC	FCC 47 CFR Part 15 Class B / EN61000-3-2 / EN61000-3-3	Compliant
CE	EN61000-3-2 / EN61000-3-3	Compliant

## Mechanical Drawing



# NMB

NMB Technologies Corporation  
 A Minebea Group Company  
 Corporate Headquarters  
 9730 Independence Avenue  
 Chatsworth, California 91311  
 Tel: 818-341-3355 • Fax: 818-341-8207  
[lighting@nmbtc.com](mailto:lighting@nmbtc.com)  
[www.nmbtc.com](http://www.nmbtc.com)