## **CLSD** Series Performance Line

# Programmable LED DriverAdjustable Output Current

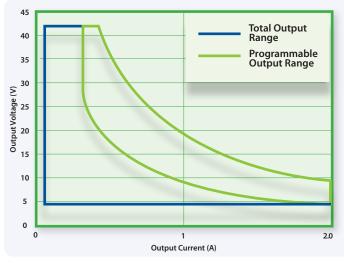
- 10~20W Power Rating

#### **Features:**

- Programmable current can be adjusted prior • to installation
- 0~10V Low Voltage and PWM Dimming Function •
- 90% Efficiency at Full Load •
- Comprehensive protection against short-circuit, • over voltage, overload and over temperature
- 0.5W Off-State Power Consumption
- 130K hours life time @ 45°C
- **RoHS and WEEE Certified**

NMB's line of Performance LED Drivers offer a dimmable driver with a wide output current range and the ability to program the output current from 350mA to 2A, to match your application requirements. With brightness compensation and diagnostics, installation and maintenance has never been easier! The 0~10V and PWM digital dimming feature is IEC60929 and ANSI E1.3 compliant. Class II protection assures reinforced insulation between input and output voltages. Standard models offer IP20 rating, with higher ratings available on request to fulfill OEM requirements.

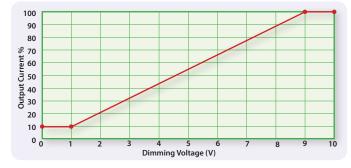
#### CLSD-020-PRG-G2 Output Range



\*Note: Programming the current of the Performance Line of CLSD Series Drivers requires the use of the CLSD-PRG-BOX-G2 Programming Box plus NMB's LED Driver Set-up Application Software. Please refer to our website at www.nmbtc.com/lighting for additional information.



0~10V Dimming Ratio



#### **PWM Dimming Ratio**



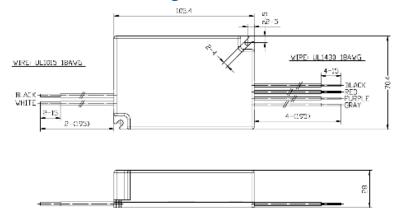


www.nmbtc.com/lighting

# LED Driver Programmable Output Current Coverage

LED DRIVER - 10W~20W POWER RATING					
		DC Voltage Output [Vdc]		Current Output [mA]	
PART NUMBER		Min.	Max.	Min.	Max.
CLSD-020-PRG-G2		5	42	350	2000
ELECTRICAL SPECIFIC	ATIONS				
Universal AC Input Voltage		90-305 (Typical 100 VAC/240 VAC)			
Input Frequency		50/60Hz			
Inrush Current		<36A (Max)			
Dimming Ratio		10% in Linear Mode, and 0% in PWM Mode			
EPA Off-State		0.5W (Max)			
Input Power at Full Load		26W (Max)			
Efficiency at Full Load		90%			
<b>CONTROL &amp; PROTECT</b>	ON				
Programmability		Programmable (using CLSD-PRG-BOX-G2 Programming Box)			
Protection		Short Circuit / Over voltage / Overload / Over temperature			
ENVIRONMENTAL, SAFETY & MECHANICAL SPECIFICATIONS					
CRITERIA		SPECIFI	CATION	REFEI	RENCE
Power Factor		>0	.9		
Harmonics		Clas	Class C IEC 61000-3-2		000-3-2
Isolation Voltage		3000	VAC	Minimum	
Surge Immunity		Lev	el 3	IEC 61000-4-5	
Operating Temperature (around case)		-25°C t	o 60°C	Operating	
Storage Temperature		-40°C t	o 85°C	Non-Operating	
Lifetime (Minimum hours)		130,	,000	At Maximum Load (45°C 110V)	
Weight			0g	Maximum	
Ingress Protection		IP20			
Safety: UL			750 0 Class 2 Output	Аррі	roved
CSA		C22.2 M C22.2 M		Арр	roved
EN		61347-1 / 6	61347-2-13	Аррі	roved
EMC		FCC 47 CFR Part 15 Class B / EN61000-3-2 / EN61000-3-3		Approved	
CE		EN6100 EN610	00-3-2 / 00-3-3	Арри	roved

### **Mechanical Drawing**



NMB

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