

Features:

- Constant voltage
- 3 in 1 dimming function (0/1-10Vdc or 10v PWM signal or resistance)
- AC input: 200-240VAC
- Built-in active PFC function
- High efficiency up to 86%
- Protections: Short circuit/ Over current/ Over loading
- IP66 design for indoor and outdoor installation
- Suitable for LED lighting and moving signs
- 5 years warranty



UK
CA



SELV IP66

Models

	ELED-100-12V	ELED-100-24V	ELED-100-48V
Output Specifications			
Output Voltage	12V	24V	48V
Voltage Tolerance		± 0.5%	
Output Current	8.34A	4.17A	2.09A
Rated Power		100W	

Input Specifications

Input Voltage	200-240VAC		
Frequency Range	47-63Hz		
Inrush Current	45.2A (Twidth=520µs 230VAC)		
Full Load Efficiency (Typ.)	83%		86%
AC Current (Max.)	0.8A		
Leakage Current	<0.50mA		
Power Factor	PF>0.98/230VAC (Full Loading)		

Protection

Short Circuit	Hicup mode, recovers automatically after fault condition is removed
Over Loading	≤120%
Over Current	≤1.2*I _{out}
Over Temperature	100°C±10°C, Shut down o/p voltage, recovers automatically after temp. goes down.

Environment

Working Temperature	-40~+60°C (Refer to derating curve)
Working Humidity	20-95% RH, non-condensing
Storage Temperature, Humidity	-40~+80°C, 10-95% RH

Environment

Temperature Coefficient	$\pm 0.03\%/^{\circ}\text{C}$ (0-50°C)
Vibration	10-500Hz 5G 12min./ 1 cycle, period for 72min. each along X, Y, Z axes

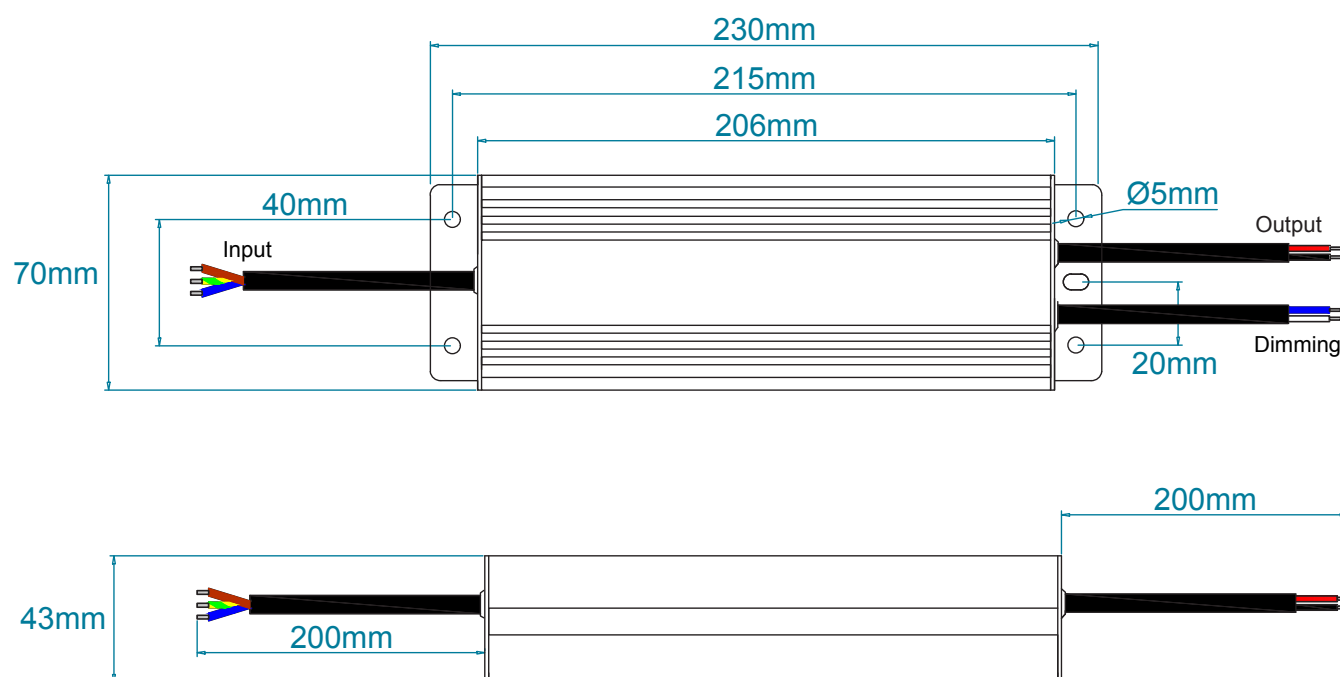
Safety & EMC

Safety standards	EN61347-1, EN61347-2-13
Withstand voltage	I/P-O/P:3.75KVAC I/P-FG:1.88KVAC O/P-FG:0.5KVAC
Isolation resistance	I/P-O/P I/P-FG O/P-FG:100M Ω /500VDC/25°C/70%RH
EMC Emission	Compliance to EN55015, EN61000-3-2 ($\geq 60\%$ load)
EMC Immunity	EN61000-4-2,3,4,5,6,11, EN61547, light industry Level (surge 4KV) Criteria A

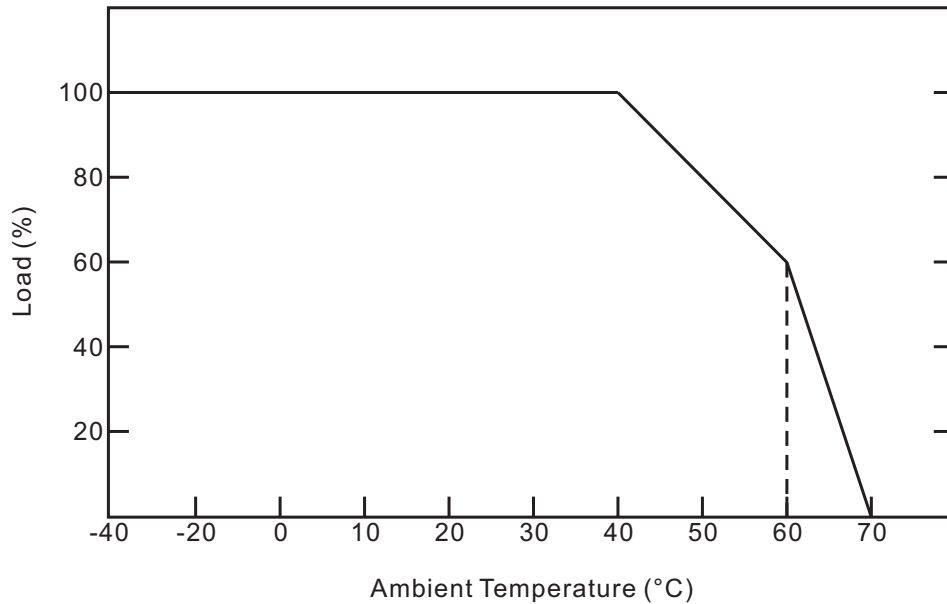
Other Specifications

Weight	1.05 Kg
Size	230 x 70 x 43 mm
Packing	329 x 279 x 176 mm (10PCS/CTN)

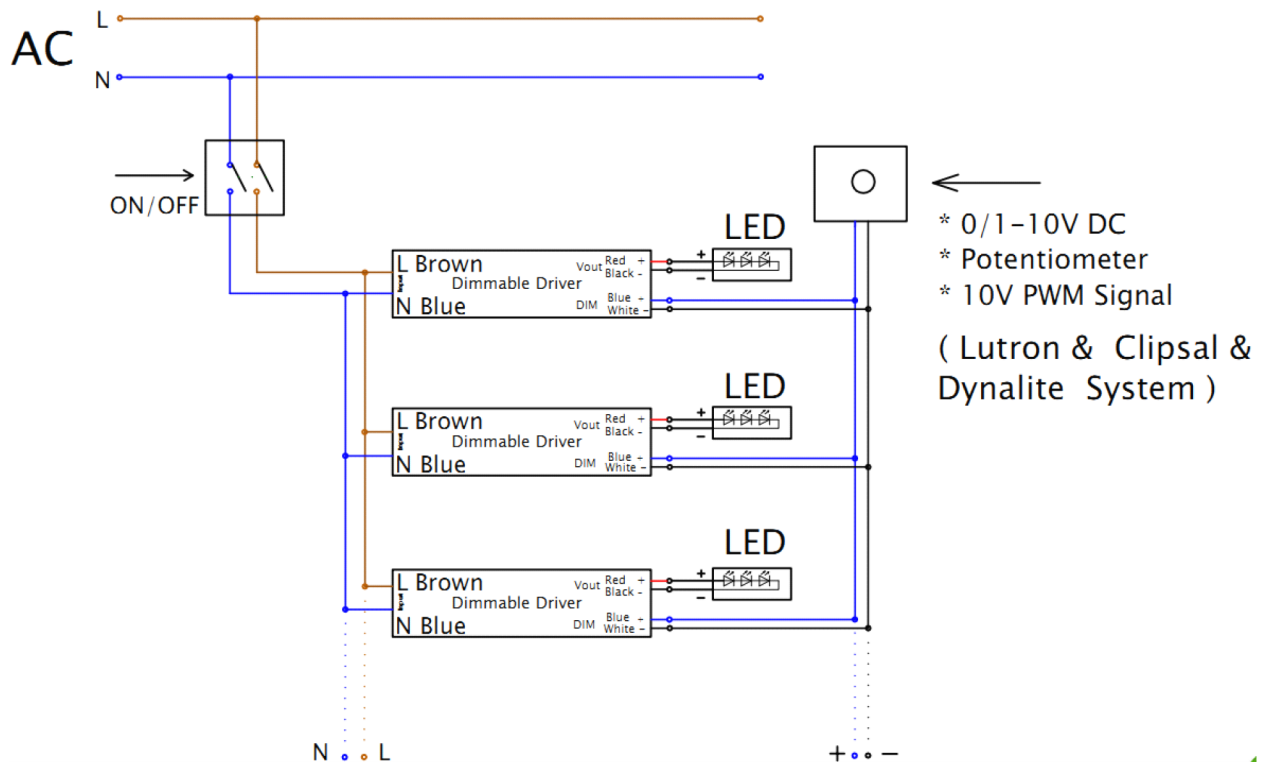
Mechanical Specifications



Derating Curve



Connection Drawing



The diagram illustrates a 0-10V dimmer system. It starts with an AC input (L and N lines). The L line passes through a switch labeled 'ON/OFF 0-10V Dimmer' before entering a 'Vin' terminal of a 'Dimmable Driver'. The N line is connected directly to the 'N Blue' terminal of the driver. A 'DIM' line, labeled 'DC 0-10V', is connected from the switch to the 'DIM' terminal of the driver. The driver's output, 'Vout', is connected to an 'LED' load. The LED load has three terminals: 'Red +', 'Black -', and 'Blue +'. The 'Blue +' terminal is connected to the 'DIM' line. The 'Red +' and 'Black -' terminals are connected to the 'L Brown' and 'N Blue' lines, respectively. This setup is repeated for three identical LED loads. The diagram also shows a common return line for the LED loads, which is connected to the 'N' line.

Resistance value (typical)													
Resistance value	Single driver	0Ω	10KΩ	20KΩ	30KΩ	40KΩ	50KΩ	60KΩ	70KΩ	80KΩ	90KΩ	100KΩ	OPEN
	Multiple drivers	0Ω/N	10KΩ/N	20KΩ/N	30KΩ/N	40KΩ/N	50KΩ/N	60KΩ/N	70KΩ/N	80KΩ/N	90KΩ/N	100KΩ/N	—
Percentage of luminous		0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	100%

Dimming value	0V	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Percentage of luminous	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	100%

Duty value	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
Percentage of luminous	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	100%