

TRONIX

Pre-settable LED Driver

SPECIFICATIONS



INTRODUCTION

These led drivers provides the best compromise between an attractive price and qualified performance. With a focus on application-related functions, the LED Driver range offers good quality and performance that ensures reliable operation of LED module.

Features

- Independent fixed output LED Driver
- Constant current
- Specific, optimized output current and voltage
- 6-30W Wattage adjustable
- Output current 150-750mA
- Output power 6-30W
- Whole range are featured with flicker free performance
- Idea circuit design overcome luminarie flickering with voltage fluctuation.
- Nominal life-time up to 50,000 h
- For luminaires of protection class I and protection class II
- Temperature protection as per EN 61347-2-13 C5e
- Small, super compact dimensions
- IP rating IP20

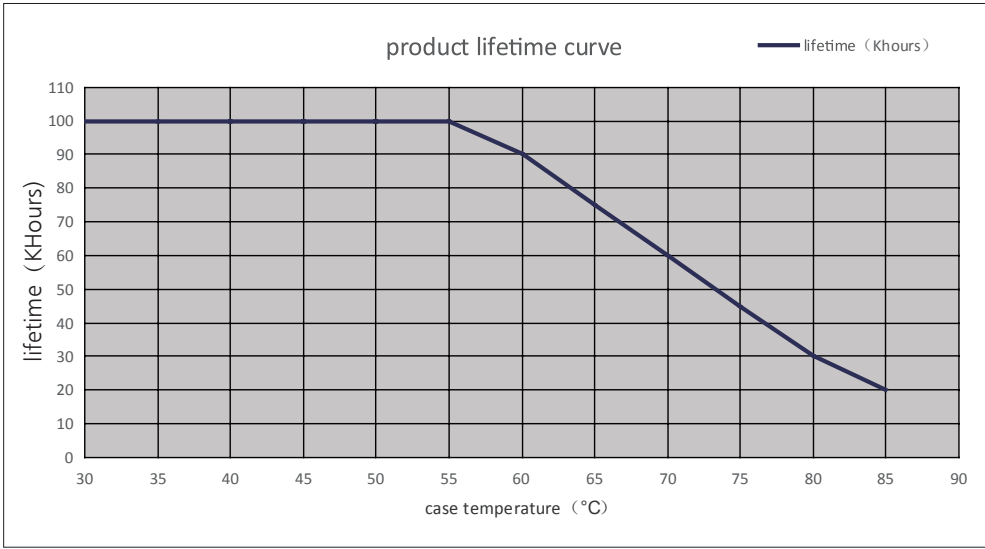
TECHNICAL DATASHEET

Driver Datasheet (Non-dimmable)

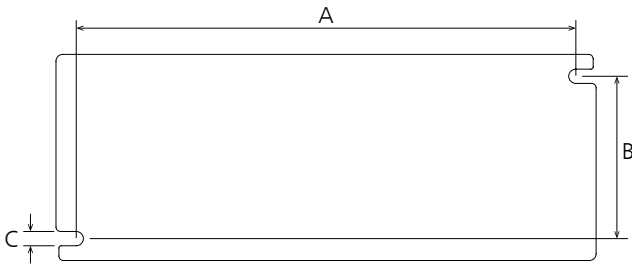
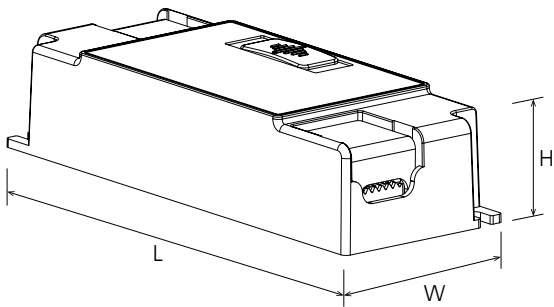
Code		215-160	215-163	215-161	215-162
Input	Input POWER	6/7/8/9/10W	6/8/10/13/15W	13/16/18/20/25W	18/20/22/25/30W
	Input Voltage	200-264V			
	Rated Input Voltage(V)	220-240V			
	Frequency	50/60HZ			
	Input Current	≤0.06A	≤0.09A	≤0.14A	≤0.17A
	Rated Input Current	≤0.05A	≤0.075A	≤0.13A	≤0.15A
	Power Factor (typ)	0.9			
	Total harmonic distortion(THD)	<20% @230V			
	Efficiency (typ)	≥85%	≥86%	≥87%	≥89%
	Inrush currentN (Typ.)	23A/30uS	23A/36uS	22.2A/53uS	23.2A/224uS
	Max circuit breaker	Please refer to" Circuit breaker Specification"			
	Leakage current	<0.5mA/240V			
	No load wattage	<0.5w @230V			
Output	Output Voltage range	30-40V			
	Rated output current	150/175/200/230/260mA	150/200/250/300/360mA	300/400/450/500/620mA	450/500/550/600/750mA
	Line Regulation	±5%			
	Open circuit voltage (max)	50V			
	Setup time(note1)	<500ms @230V			
	Flickering Index(IEEESd 1789)	1%(NO RISK)			
Protection	Short circuit protection	Constant current limiting, recovers automatically after fault condition is removed			
	Over voltage protection	Shut down o/p voltage			
	Over temperature protection	Shut down o/p voltage, recovers automatically after temperature goes down			
Environment	Ambient temperature range ta	-20...+45°C			
	Maximum case temperature tc	85°C (Measured on tc point indicated of the product label, tc not exceeded)			
	Operating temperature	-20...+45°C			
	Storage temperature/humidity	-25...+85 °C; 5-95% RH			
	Relative humidity	5...85%			
	Environmental rating	Indoor			
	IP rating	IP20			
Safety&EMC	Life time	>50,000H @25°C			
	Safety standards	IEC/EN61347-1, IEC/EN61347-2-13, IEC/EN62384 independent,GB19510.14,GB19510.1 approved			
	Withstand voltage	I/P-O/P:3.75KVac,<5mA 60S; I/P-FG:1.6KVac,<5mA 60S			
	Isolation Resistance	I/P-O/P: 500VDC, ≥100M Ω			
	surge	IEC/EN61000-4-5(L-N:1.5KV)			
	EMC Emission	IEC/EN55015, IEC/EN61000-3-2			
Other	EMC Immunity	IEC/EN61000-4-2,3,4,5,6,8,11; IEC/EN61547			
	Dimension	103*39*28mm	103*39*28mm	103*39*28mm	121*46*28mm
	Weight	0.064Kg	0.064Kg	0.073Kg	0.102Kg

Product Referenced Lifetime Curve

The curve below illustrates the driver's lifetime date when the LED driver's Max. case temperature reaches 40°C,50°C,60°C,70°C, 80°C and 90°C.



DIMENSION



Dimension(mm)						
Code	L	W	H	A	B	C
215-160	103	39	28	97	31.1	3.2
215-163	103	39	28	97	31.1	3.2
215-161	103	39	28	97	31.1	3.2
215-162	121	46	28	112	36.4	3.2

CIRCUIT BREAKER SPECIFICATION

Circuit Breaker Specification								
Code	B10	B13	B16	B20	C10	C13	C16	C20
215-160 (10W)	80	105	130	157	80	105	130	157
215-163 (15W)	74	96	119	148	74	96	119	148
215-161 (25W)	48	62	76	95	48	62	76	95
215-162 (30W)	39	51	63	78	39	51	63	78

SWITCH TABLE

Code	Vout	Po Max	Io
215-160	30-40V	11W	260mA
	30-40V	10W	230mA
	30-40V	9W	200mA
	30-40V	8W	175mA
	30-40V	7W	150mA

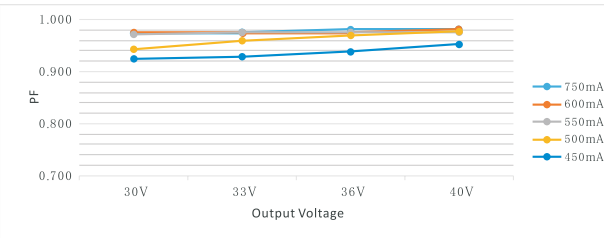
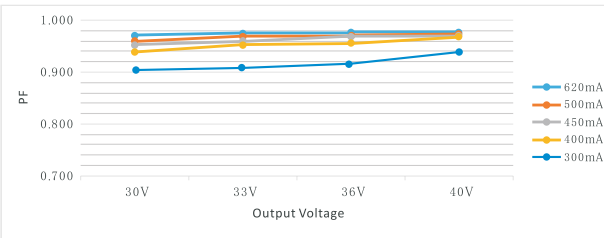
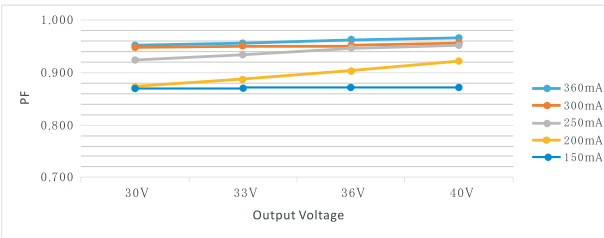
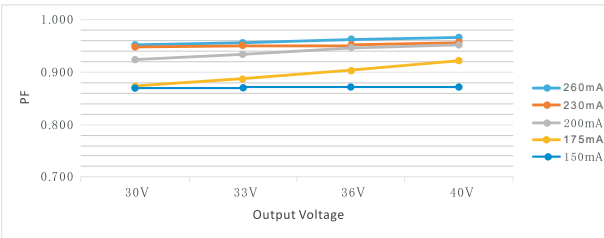
Code	Vout	Po Max	Io
215-163	30-40V	14.4W	360mA
	30-40V	12W	300mA
	30-40V	10W	250mA
	30-40V	8W	200mA
	30-40V	6W	150mA

Code	Vout	Po Max	Io
215-161	30-40V	24.8W	620mA
	30-40V	20W	500mA
	30-40V	18W	450mA
	30-40V	16W	400mA
	30-40V	12W	300mA

Code	Vout	Po Max	Io
215-162	30-40V	30W	750mA
	30-40V	25W	600mA
	30-40V	22W	550mA
	30-40V	20W	500mA
	30-40V	18W	450mA

POWER FACTOR CHARACTERISTIC

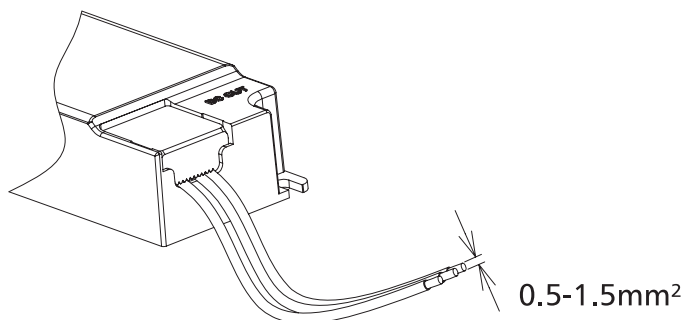
@AC230Vac Input



CIRCUIT DIAGRAM

No-load operation

In case of open circuit, protection will be activated, there will be 50V output voltage.



Glow wire test

According to EN 61347-1 with increased temperature of 960°C passed.

NON-Dimmable circuit diagram

