

## Luminus LED Ballast

### 30W Single Output LED Ballast

### LB-030-15-1A75-01-N

#### Features

Luminus LED Ballasts are ideal turn key solutions for high power LED lighting applications. The features, size and performance make them suitable for commercial lighting utilizing Luminus SST-50 devices for both indoor and outdoor installations.

- Designed for Luminus SST-50 LED
- Capable of driving 1 to 4 LED's in series at 1.75A
- Universal AC Input
- Isolated plastic case with IP64 ingress protection
- Protections: Short circuit / Overload / Over voltage
- UL1310 Class 2 power supply
- Cooling by free air convection
- RoHS Compliant

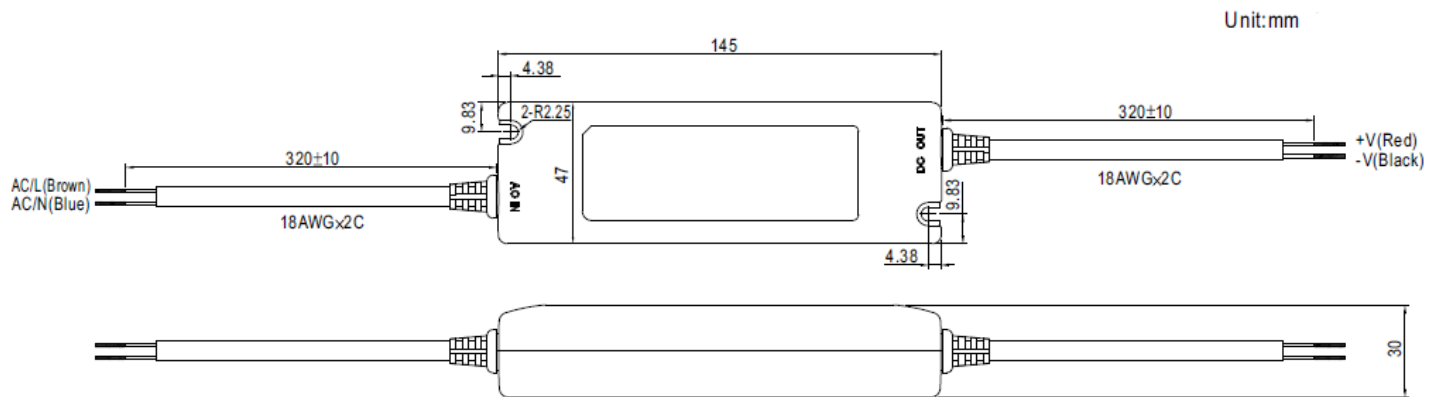


IP64

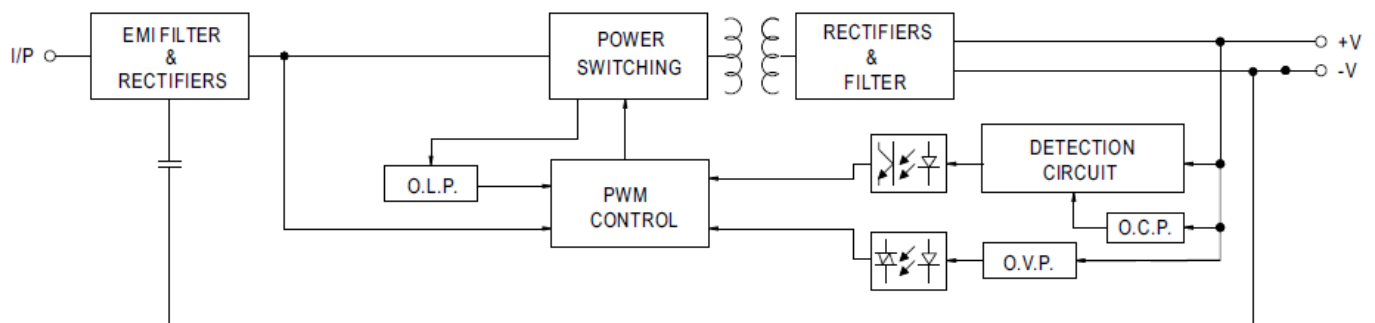
## Specifications

Output	DC Voltage	15V
	LED Operating Voltage Note 7	3 ~ 15V
	Rated Current	1.75A
	Rated Power	30W
	Ripple & Noise Note 2	120mVp-p
	Voltage Tolerance Note 3	± 5.0%
	Load Regulation	± 2.0%
	Setup, Rise Time Note 6	500ms, 80ms / 230VAC      1000ms, 80ms / 115VAC at full load
	HOLD UP TIME (TYP.)	50ms/230VAC      16ms/115VAC at full load
Input	Voltage Range	90 ~ 264VAC
	Frequency Range	47 ~ 63Hz
	Efficiency (Typ.)	82%
	AC Current	0.75A/115VAC      0.48A/230VAC
	Inrush Current (Max.)	COLD START      60A/230VAC
	Leakage Current	0.25mA / 240VAC
Protection	Over Current Note 4	95 ~ 110% Protection type: Constant current limiting, recovers automatically after fault condition is removed
	Over Voltage	17.5 ~ 21V Protection type: Shut down o/p voltage, re-power on to recover
Environment	Working Temp	-20 ~ +60 °C
	Working Humidity	20 - 90% RH non-condensing
	Storage Temp., Humidity	-40 ~ +80 °C, 10 ~ 95% RH
Safety & EMC	Safety Standards	UL1310 Class 2, CAN/CSA C22.2 No. 223-M91, IP64 approved, design refer to TUV EN60950-1, EN61347-2-13
	Withstand Voltage	I/P-O/P: 3KVAC
	Isolation Resistance	I/P-O/P: >100M Ohms / 500VDC / 25 °C / 70% RH
	EMI Conduction & Radiation	Compliance to EN55022 (CISPR22) Class B
	Harmonic Current	Compliance to EN61000-3-2,-3
	EMS Immunity	Compliance to EN6100-4-2,3,4,5,6,8,11; ENV50204, EN55024, light industry level, criteria A
Other	MTBF	628.3Khrs min. MIL-HDBK-217F (25 °C)
	Dimension	145 * 47 * 30mm (L*W*H)

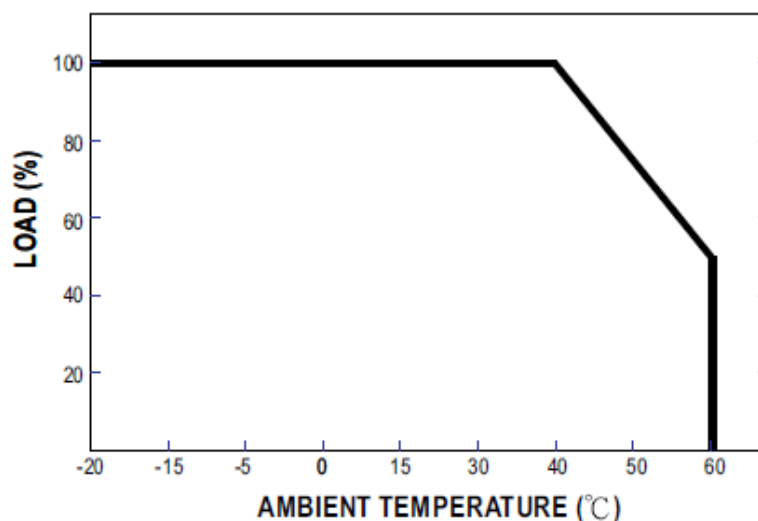
## Mechanical Drawing



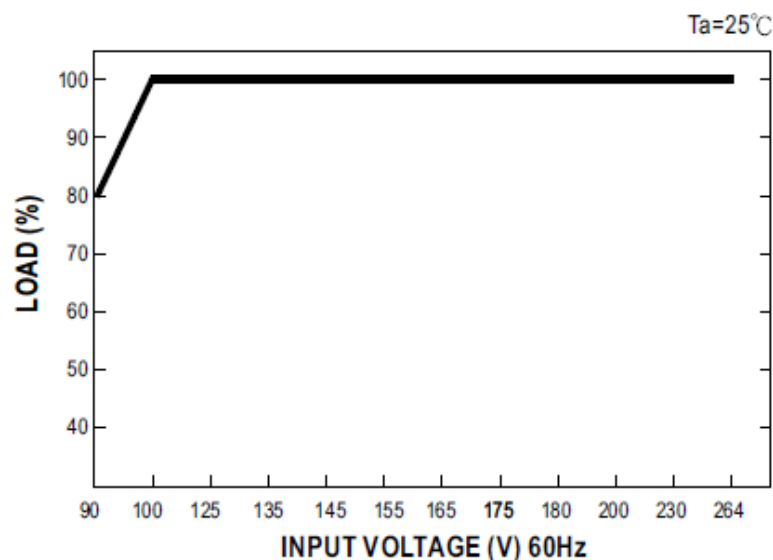
## Block Diagram



## Derating Curve



## Static Characteristics



### NOTES:

1. All parameters NOT specially mentioned are measured at 230VAC, rated load and 25°C ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair wire terminated with a 0.1uf & 47uF parallel capacitor.
3. Tolerance: includes set up tolerance, line regulation and load regulation.
4. Derating may be needed under low input voltage. Please check the derating curve for more details.
5. The power supply is considered a component which will be installed in final equipment. The final equipment must be re-confirmed that it still meets EMC directives.
6. Length of set up time is measured at first cold start. Turning the power supply ON/OFF may lead to increase of set up time.
7. Constant current operation region is within the specified output voltage range above. This is the suitable operation region for LED related applications.

## Ordering Information

Ordering Part Number	Description
LB-030-15-1A75-01-N	30W LED ballast, 3 - 15V / 1.75A output

[www.luminus.com](http://www.luminus.com)

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