

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

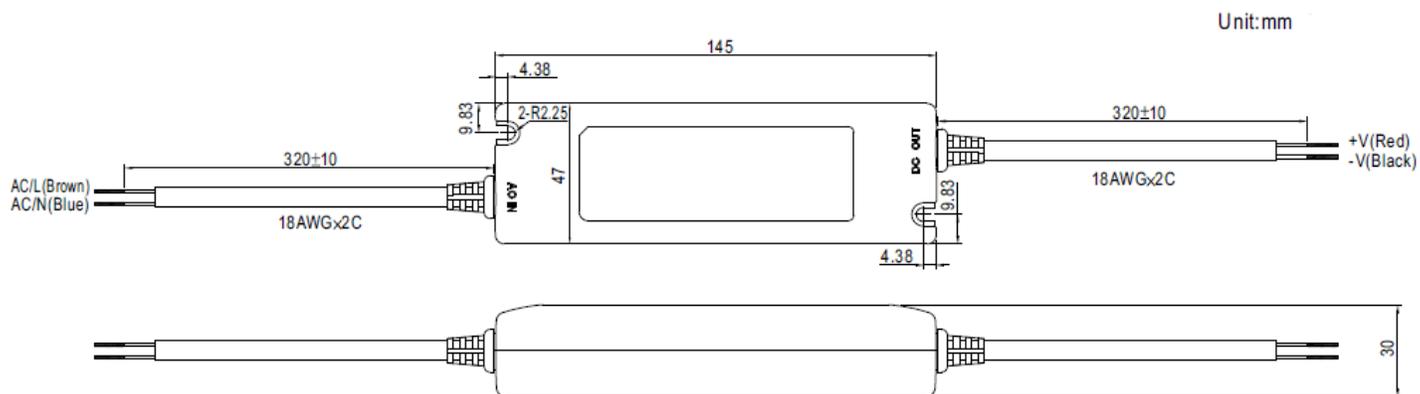


IP64

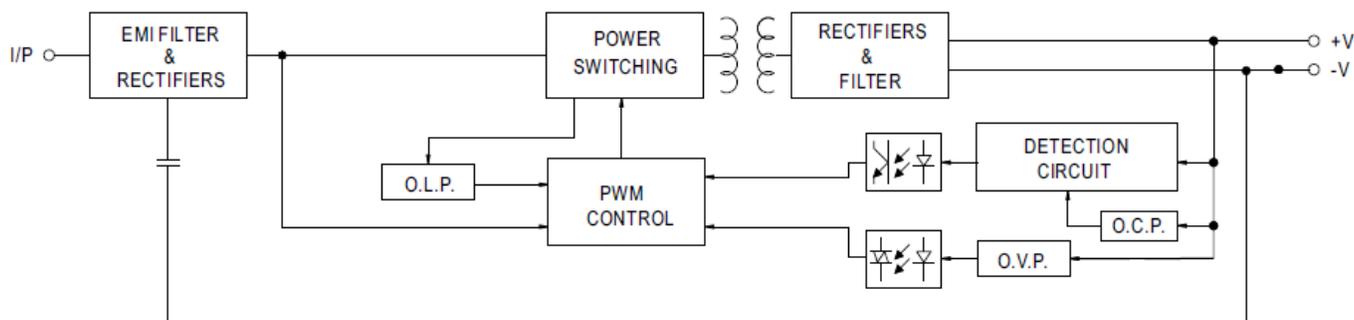
Specifications

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)	

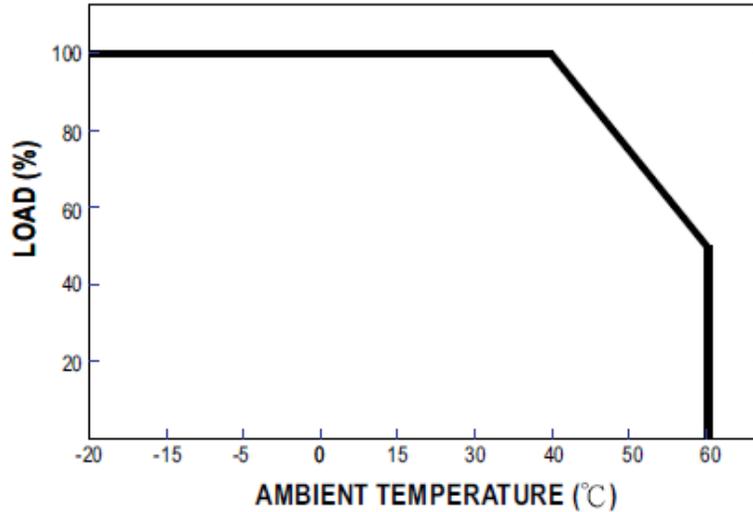
Mechanical Drawing



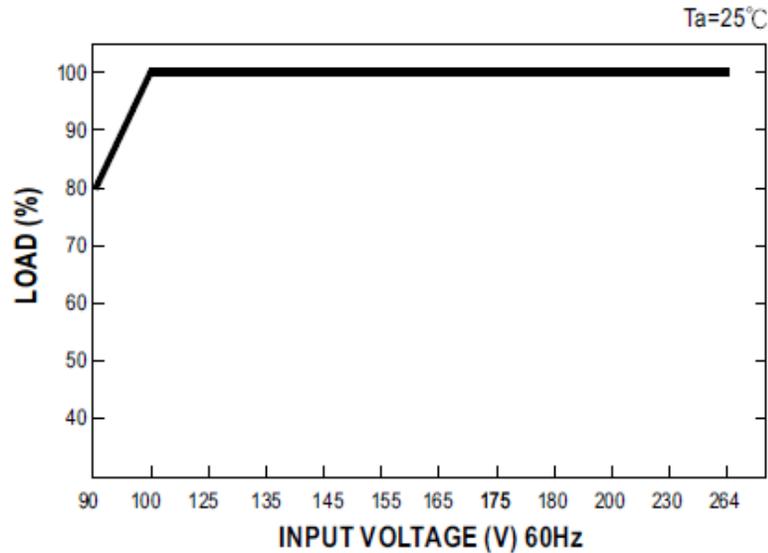
Block Diagram



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

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