

Luminus LED Ballast 60W Single Output LED Ballast LB-060-15-3A20-01-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 multiple Luminus SST-90 devices or a single CSM-360 device for both indoor and outdoor installations.

- Designed for Luminus SST-90 and CSM-360
- Capable of driving 1 CSM-360 or 4 SST-90 LED's in series at 3.2A
- Universal AC Input
- Built-in active PFC function
- Isolated plastic case with IP64 ingress protection
- Protections: Short circuit / Overload / Over voltage / Over temperature
- UL1310 Class 2 power supply
- Cooling by free air convection
- RoHS Compliant





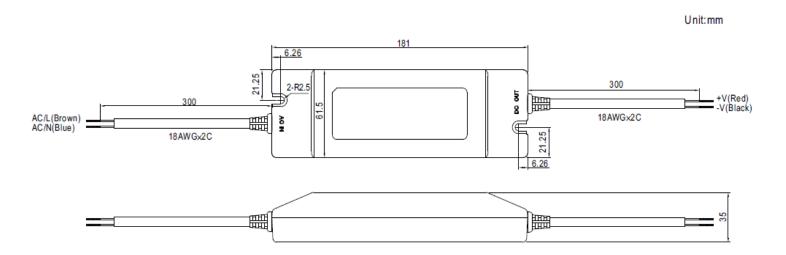
Specifications

Specification		
Output	DC Voltage	15V
	LED Operating Voltage	10.5 ~ 15V
	Rated Current	3.2A
	Rated Power	60W
	Ripple & Noise Note 2	2.4Vp-p
	Voltage Tolerance	± 10.0%
	Load Regulation	± 5.0%
	Setup Time	1500ms / 230VAC 3000ms / 115VAC at full load
Input	Voltage Range Note 4	90 ~ 264VAC
	Frequency Range	47 ~ 63Hz
	Efficiency (Typ.)	86%
	Power Factor	PF > 0.9 at 75 ~ 100% load, 115VAC / 230VAC
	AC Current	0.8A/115VAC 0.4A/230VAC
	Inrush Current (Max.)	40A/230VAC
	Leakage Current	<0.75mA / 240VAC
Protection	Over Current	110% (max)
		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	-30 ~ +50°C
	Working Humidity	20 - 95% 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 EN61347-1, EN61347-2-13
	Withstand Voltage	I/P-O/P: 3.75KVAC
	Isolation Resistance	I/P-O/P: >100M Ohms / 500VDC / 25°C / 70% RH
	EMI Conduction & Radiation	Compliance to EN55022 (CISPR22) Class B, EN55015
	Harmonic Current	Compliance to EN61000-3-2 Class C (>75% load); EN6100-3-3
	EMS Immunity	Compliance to EN6100-4-2,3,4,5,6,8,11; ENV50204, EN55024, EN61547, light industry level, criteria A
Other	MTBF	497.8Khrs min. MIL-HDBK-217F (25°C)
	Dimension	181 * 61.5 * 35mm (L*W*H)

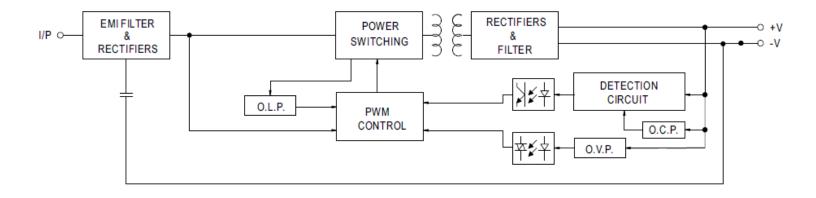




Mechanical Drawing



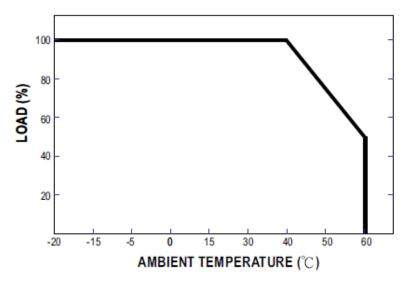
Block Diagram



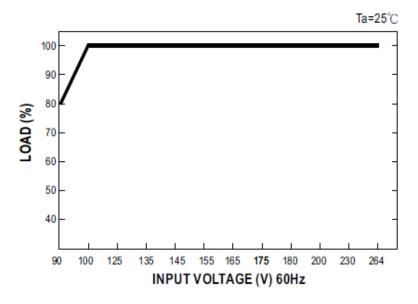




Derating Curve



Static Characteristics



NOTES:

- All parameters NOT specially mentioned are measured at 230VAC, rated load and 25°C ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair wire terminated with a 0.1uf & 47uF parallel capacitor.
- Tolerance: includes set up tolerance, line regulation and load regulation.
- Derating may be needed under low input voltage. Please check the derating curve for more details.
- 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.
- The power supply is considered a component which will be installed in final equipment. The final equipment muse be re-confirmed that it still meets EMC directives.





Ordering Information

Ordering Part Number	Description
LB-060-15-3A20-01-N	60W LED ballast, 10.5-15V / 3.2A output

www.luminus.com

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