

EUCI BA

Highlights & Features

- 15W 、35W constant current design
- EMEA AC input voltage from 220-240Vac
- Up to 88% efficiency
- Optional strain-relief set for independent applications
- Build-in active PFC and confirm to harmonic current IEC/EN 61000-3-2, Class C
- Bluetooth low energy Mesh dimming available
- 1% -100% dimming range
- Two channels for color mix application

Safety Standards

Dimensions (L x W x H):

EUCI-015035BA	100 x 43 x 25 mm
EUCI-035090BA	150 x 45 x 30 mm
EUCI-035090BAB	100 x 45 x 30 mm

General Description

Delta EUCI BA series of output current LED drivers with Bluetooth low energy Mesh control comes with affordable and reliable features. Compatible with built-in and independent type with clip-in strain relief. Two channels output current design for different color temperature lumen mix application. The user can turn on/off and dim the light, and monitor the status remotely from smartphone apps. Because its wireless, lighting companies can incorporate all these smart features without the added cost of connectors, wires, or modules in their fixtures.

Model Information

EUCI Bluetooth MESH LED Driver

Model Number	Input Voltage Range	Rated Output Voltage Range	Rated Output Current Range
EUCI-015035BA	220-240Vac Typical 198-264Vac Range	15-42Vdc	200-350mA
EUCI-035090BA		20-39Vdc	500-900mA
EUCI-035090BAB		20-39Vdc	500-900mA

Model Numbering

1

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Safety Approval CE, ENEC, CCC	Constant Current	Indoor		Output Power 015 – 15W 035 – 35W	Max Output Current 035 – 350mA 090 – 900mA	Function B – Bluetooth	Variable A – Standard	Commercial Scope B – Built-in type



Specifications

Model Number		EUCI-015035BA	EUCI-035090BA	EUCI-035090BAB		
Input Ratings / Characteri	stics					
Normal Input Voltage		220-240Vac				
Input Voltage Range		198-264Vac				
Normal Input Frequency		50-60Hz				
Input Frequency Range		47-63Hz				
Max. Input Current	220Vac	c 0.087A 0.2A				
Efficiency 1)	230Vac	86.5%	88%			
Inrush Current (Apk / 50% - μS @ Cold Start)		4A / 50us @ 230Vac				
Max. No. of LED Drivers circuit breaker at 230Vac B16		90 pcs 54 pcs				
Power Factor		> 0.95 @ full load ; > 0.9 @ 50% load				
Total Harmonic Distortion		THD < 20% with load ≥ 50% @ 230Vac				
Leakage Current		< 0.7mA				

1) 100% Load (typical) and tested after 30 minutes warm up.

Output Ratings / Characteristics

15-42Vdc	20-39Vdc	
50V	55V	
200-350mA	500-900mA	
Ch1+Ch2=15W	Ch1+Ch2=35W	
3.5-350mA	9-900mA	
1% (Min dim level)		
± 5% (@ Typical output current range)		
± 1% (@ 220-240Vac input)		
± 5% (@ Min-Max output voltage)		
5% (ripple = peak-average/average) at full load (<100Hz)		
850ms max. @ 230Vac		
	50V 200-350mA Ch1+Ch2=15W 3.5-350mA 1% (Min dim level) $\pm 5\%$ (@ Typical output current in $\pm 1\%$ (@ 220-240Vac input) $\pm 5\%$ (@ Min-Max output voltage 5% (ripple = peak-average/average)	

Mechanical

Casing	Plastic, Color: White	Plastic, Color: White			
Dimensions (L x W x H) [mm]	100.0 x 43.0 x 25.0	150.0 x 45.0 x 30.0	100.0 x 45.0 x 30.0		
Unit Weight [kg]	0.08	0.18	0.16		
Cooling System	Convection	Convection			
Input Connector	Terminal, 2-pole (Line / Ne Conductor 0.75~1.5 mm ² Strip length 8.59.5mm				
Output Connector	Terminal, 4-pole (Positive / Negative / Posit Conductor 0.75~1.5 mm² Strip length 8.59.5mm	(Positive / Negative / Positive / Negative) Conductor 0.75~1.5 mm ²			
Noise (30cm distance)	Sound Pressure Level (SPL) < 24dBA				



Model Number

LED Driver EUCI BA Series

Environment					
Ambient Temperature	Operating	-25°C to +50°C			
	Storage	-25°C to +85°C			
Maximum Case Temperature		+75°C	+85°C		
Lifetime Case Temperature		+75°C	+85°C		
Relative Humidity Operating Storage		10 to 90% RH (Non-Condensing)			
		5 to 95% RH (No	5 to 95% RH (Non-Condensing)		
Protections					
Over Voltage Protection		Max. 50V for 15W, Max. 55V for 35W model, Auto-Recovery when the fault is removed			
Open Load Protection		Auto-Recovery when the fault is removed			
Short Circuit Protection			hen the fault is removed		
Over Temperature Prote	ection	Auto-Recovery w	hen the fault is removed		
Ingress Protection Class		IP20			
Suitable for Luminaires		Class II. Insulatio	n Class according to IEC 60598		
Reliability Data					
Lifetime		50,000 hrs. @ life	time case temperature		
MTTF		500,000 hrs.@ 40°C ambient temperature as per Telcordia SR-332			
<u> </u>		ENEC to EN 61347-1, EN 61347-2-13, EN 62384 CCC, GB19510.1, GB19510.14 SELV			
CE		In conformance with EMC Directive and Low Voltage Directive			
Material and Parts		RoHS Directive Compliant			
Galvanic Isolation		Input to Output: 3	.75kVac		
EMC					
Emissions (CE & RE)		Compliance to EN 55015 Class B			
Immunity		Compliance to EN	N 61547		
Electrostatic Discharge		IEC 61000-4-2	Air Discharge: 8kV ; Contact Discharge: 4kV Criteria A ¹⁾ or B ²⁾		
Radiated Disturbances		IEC 61000-4-3	80MHz-1GHz, 3V/m with 1kHz Sine Wave / 80% AM Modulation Criteria A ¹⁾		
Electrical Fast Transient	/ Burst	IEC 61000-4-4	1kV; Criteria A ¹ or B ²		
			1.2/50µs, 8/20µs Combination Wave with 20hms (L-N), 120hms		
Surge		IEC 61000-4-5	(L-PE & N-PE) source impedance Criteria $A^{(1)}$ or $B^{(2)}$		
			15W :Common Mode ³⁾ : 1kV; Differential Mode ⁴⁾ : 0.5kV		
			35W :Common Mode ³⁾ : 2kV; Differential Mode ⁴⁾ : 1kV		
Conducted Disturbances		IEC 61000-4-6	150kHz-80MHz, 3Vrms; Criteria A ¹⁾		
Power Frequency Magnetic Fields		IEC 61000-4-8 3A/Meter; Criteria A ¹⁾			
Voltage Dips		IEC 61000-4-11	100% dip; 0.5 cycle; Self Recoverable		
			30% dip; 10 cycle; Self Recoverable		
Harmonia Ourset Freis	lion		Criteria A ¹) or B ²		
Harmonic Current Emiss		IEC 61000-3-2	Class C (230Vac @ 100% load)		
Voltage Fluctuation and Flicker		IEC 61000-3-3	$P_{st} \leq 1.0$; $d_{max} \leq 4\%$; $P_{lt} \leq 0.65$; $d_c \leq 3.3\%$; $T_{max} \leq 500 ms$		

EUCI-035090BA

EUCI-035090BAB

EUCI-015035BA

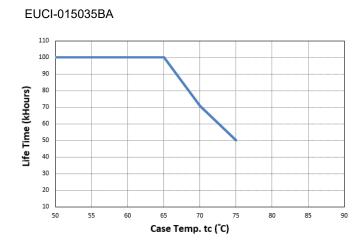
Criteria A: Normal performance within the specification limits
Criteria B: Temporary degradation or loss of function which is self-recoverable

3

3) Asymmetrical: Common mode (Line to earth)4) Symmetrical: Differential mode (Line to line)

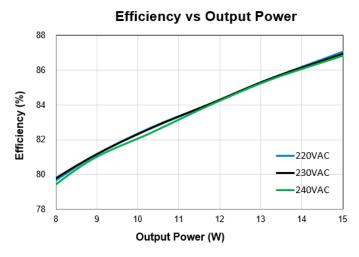


Lifetime VS Case Temperature

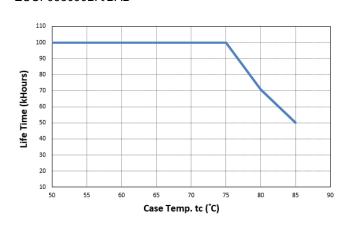


Efficiency VS Output Power

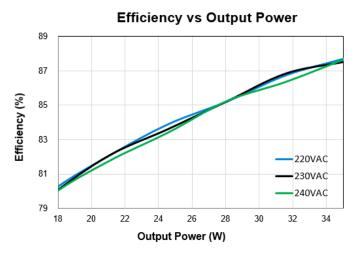
EUCI-015035BA



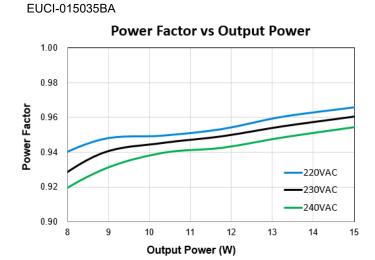
EUCI-035090BA/BAB



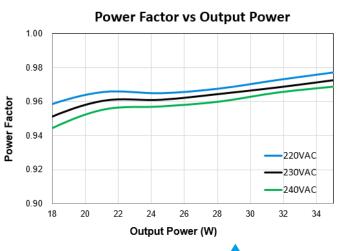
EUCI-035090BA/BAB



Power Factor VS Output Power



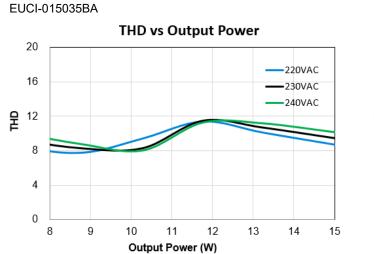
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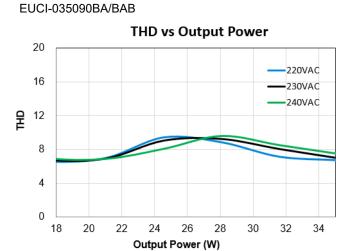


All parameters are specified at 25°C ambient for all products unless otherwise indicated. www.DeltaPSU.com (Mar 2022, Rev. 02)



Total Harmonic Distortion VS Output Power

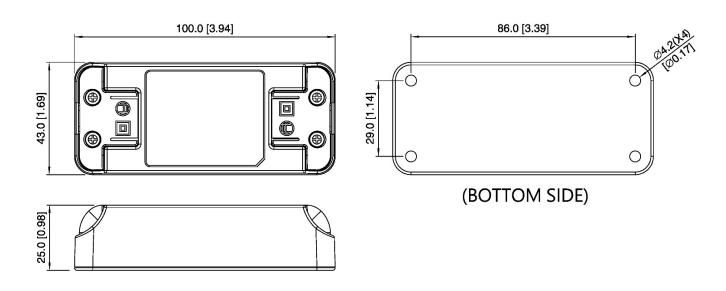




Dimensions

5

EUCI-015035BA

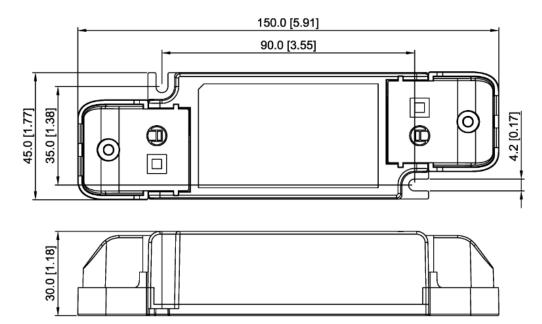


Unit: mm [inch]

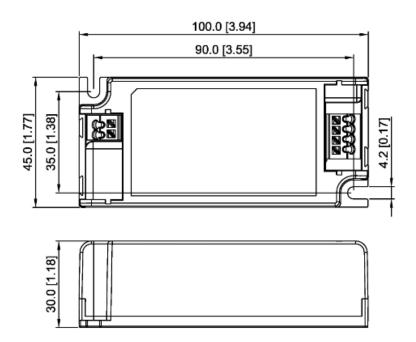


Dimensions

EUCI-035090BA



EUCI-035090BAB



Unit: mm [inch]

Others

Warranty Policy

Please reach out our Warranty Policy should you require any further clarification.

