EUCI MINI Series



EUCI MINI

Highlights & Features

- Constant current design
- Input voltage from 220-240Vac/ 176-280Vdc
- Built-in or independent type with clip-in strain-relief
- Meets IEC/EN 61000-3-2, Class C
- Output current adjustable by programming tool
- DALI control and emergency lighting is available
- IP20 assembly for indoor applications

Safety Standards



Built-in type

97 x 43 x 30 mm (3.82 x 1.69 x 1.18 inch) Independent type clip-in strain-relief 147 x 43 x 30 mm (5.79 x 1.69 x 1.18 inch)

General Description

Delta EUCI-Mini series of output current LED drivers with i-Programming and DALI control comes with affordable and reliable features. Compatible with built-in and independent type with clip-in strain relief from any LED manufacturer. Output current with i-Programming design for different lumen application. Meet major Europe safety certifications and are compliant with EN55015 immunity/ Emissions/ Harmonic requirements. The products are designed and rigorously tested to work in various indoor LED lighting conditions.

Model Information

EUCI MINI LED Driver

Model Number	Input Voltage Range	Rated Output Voltage	Rated Output Current
EUCI-020070GLA EUCI-020070GLAB	220-240Vac/Vdc Typical 198-264Vac Range 176-280Vdc Range	24-54Vdc	250-700mA

Model Numbering

EU	С	1-				
Safety	Output Type	Application	Output Power	Output Current	Function/Interface	Variable
EMEA	C:Constant Current	Indoor	020 – 20W	070 – 700mA	GL – i-Programming	A – Independent type
					+DALI Control	AB –Built-in type



EUCI MINI Series

Specifications

Model Number EUCI-020070GLA / EUCI-020070GLAB

Input Ratings / Characteristics

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Normal Input Voltage	220-240Vac 220-240Vdc			
Input Voltage Range	198-264Vac 176-280Vdc			
Normal Input Frequency	50/60 Hz			
Input Frequency Range	47-63 Hz			
Normal Input Current	0.13A @ 220-240Vac / 0.11A @ 220-240Vdc			
Efficiency ¹⁾ 230Vac	86% typ.			
Stand By Power Consumption	< 0.5W			
Inrush Current (Apk / 50%-us) (Cold Start)	50A/150us @ 230Vac			
Max. no. of LED Driver for Circuit Breaker	17pcs			
Power Factor	>0.95 @ 230Vac/50Hz			
Total Harmonic Distortion	< 15% @ 230Vac/50Hz at 100% load			
Leakage Current	< 0.7mA @ 230Vac			

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

Output Ratings / Characteristics

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Nominal Output Current 250-700mA		
Default Output Current	370mA	
Output Voltage Range	24-54Vdc	
Max. No Load Output Voltage	60Vdc	
Output Power Range	6-20W	
Output Current Tolerance	± 5%	
Line Regulation	± 1%	
Load Regulation	± 5%	
Output Current Ripple(<100Hz)	5% @full load(ripple = pk-avg/avg)	
Rise Time	< 100ms @ 230Vac	
Start-up Time < 200ms @230Vac		

Mechanical

Casing	Plastic, Color : White		
Dimensions (L x W x H) [mm] [inch]	Built-in: 97.0 x 43.0 x 30.0, Independent: 147.0 x 43.0 x 30.0 Built-in: 3.82 x 1.69 x 1.18, Independent: 5.79 x 1.69 x 1.18		
Unit Weight [kg] [lb]	Built-in: 0.16, Independent: 0.19 Built-in: 0.35, Independent: 0.42		
Cooling System	Convection		
Input connector :	Terminal, 6-pole (Neutral/Line/DALI1/DALI2/GND/PRG), Conductor 0.75~1.5 mm², Strip length 8.59.5mm		
Output connector	Terminal, 2-pole (LED+/LED-), Conductor 0.75~1.5 mm², Strip length 8.59.5mm		



Model Number

LED Driver

EUCI MINI Series

Environment				
Ambient	Operating	-25°C to +50°C		
Temperature	Storage	-40°C to +85°C		
Maximum Case Temperature		85°C		
Lifetime Case Temperature		85°C		
Polotivo Humidity	Operating	10 to 60% RH (Non-Condensing)		
Relative Humidity	Storage	10 to 95% RH (Non-Condensing)		

EUCI-020070GLA / EUCI-020070GLAB

Protections

Totodiono	
Over Voltage	Max. 60V, Auto-Recovery when the fault is removed
Open Load Auto-Recovery when the fault is removed	
Short Circuit Auto-Recovery when the fault is removed	
Over Temperature	Auto-Recovery when the fault is removed
Ingress Protection Classification	IP20
Suitable for Luminaires Class Class II. Insulation Class according to IEC 60598	

Reliability Data

Lifetime	50,000 hrs. at lifetime case temperature
MTTF	500,000 hrs.@ta: +50°C (as per Telcordia SR-332 , total failure rate less than 10%)

Safety Standards / Directives

Electrical Safety	Built-in type, with	Built-in type, without kits -Class II -SELV -EL -CB scheme to IEC 61347-1, IEC 61347-2-13 -ENEC to EN 61347-1, EN 61347-2-13 SMPS incorporating a short-circuit-proof safety isolating transformer,					
	-Class II						
	-SELV						
	-EL						
	-CB scheme to IE						
	-ENEC to EN 613						
	SMPS incorporat						
	Independent type	Independent type, with kits					
	-Class II, Indeper	-Class II, Independent lamp control gear,					
	-SELV	-SELV					
	-EL	-EL					
	-CB scheme to IE	-CB scheme to IEC 61347-1, IEC 61347-2-13					
	-ENEC to EN 613	-ENEC to EN 61347-1, EN 61347-2-13					
	SMPS incorporat	SMPS incorporating a short-circuit-proof safety isolating transformer,					
	Temperature dec	Temperature declared thermally protected lamp control gear, MM mark					
CE	In conformance v	In conformance with EMC Directive and Low Voltage Directive					
Material and Parts	RoHS Directive C	RoHS Directive Compliant					
Galvanic Isolation		Mains (Input)	Output	DALI			
	Mains (Input)	N/A	3750V	1875V			
	Output	3750V	N/A	1875V			
	DALI	1875V	1875V	N/A			



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EMC

Emissions (CE & RE)	Compliance to EN 55015 Class B		
Immunity	Compliance to EN 61547		
Flectrostatic Discharge IFC, 61000-4-7		ESD, Criteria A ¹⁾ or B ²⁾ Air Discharge: 8kV; Contact Discharge: 4kV	
Radiated Field	IEC 61000-4-3	RS, Criteria A1 80MHz-1GHz, 3V/m with 1kHz Sine Wave / 80% AM Modulation	
Electrical Fast Transient / Burst	IEC 61000-4-4	EFT, Criteria A ¹⁾ or B ²⁾ 1kV	
Surge	IEC 61000-4-5	Criteria A ¹⁾ or B ²⁾ Common Mode ³⁾ : 2kV; Differential Mode ⁴⁾ : 1kV 1.2/50µs, 8/20µs Combination Wave with 2ohms (L-N), 12ohms (L-PE & N-PE) source impedance	
Conducted Disturbance	IEC 61000-4-6	CS, Criteria A ¹⁾ 150kHz-80MHz, 3Vrms	
Power Frequency Magnetic Fields	IEC 61000-4-8	PFMF, Criteria A ¹⁾ 3A/Meter	
Voltage Dips	IEC 61000-4-11	Criteria A ¹⁾ or B ²⁾ ; 100% dip; 0.5 cycle; Self Recoverable 30% dip; 10 cycle; Self Recoverable	
Harmonic Current Emission	IEC 61000-3-2	Class C (230Vac @ 100% load)	
Voltage Fluctuation and Flicker	IEC 61000-3-3	$P_{st} \leq 1.0 \; ; \; d_{max} \leq 4\% \; ; \; P_{lt} \leq 0.65 \; ; \; d_c \leq 3.3\% \; ; \; T_{max} \leq 500 ms$	



¹⁾ Criteria A: Normal performance within the specification limits 2) Criteria B: Temporary degradation or loss of function which is self- recoverable

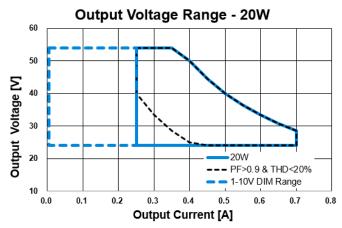
³⁾ Asymmetrical: Common mode (Line to earth)

⁴⁾ Symmetrical: Differential mode (Line to line)

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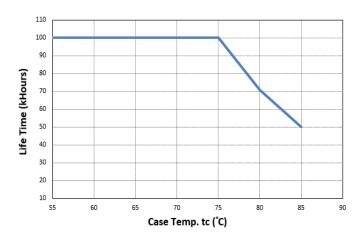
Output and Dimming Characteristic Curve

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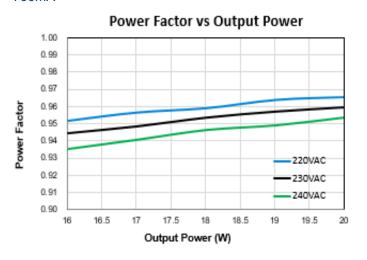
Lifetime VS Case Temperature

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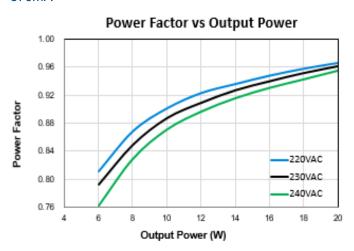


Power Factor VS Output Power

700mA



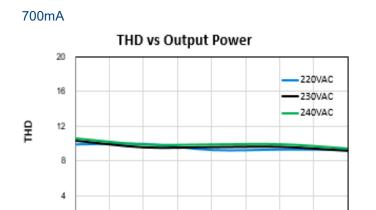
370mA





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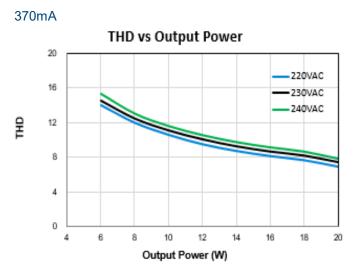
Total Harmonic Distortion VS Output Power



Output Power (W)

18.5

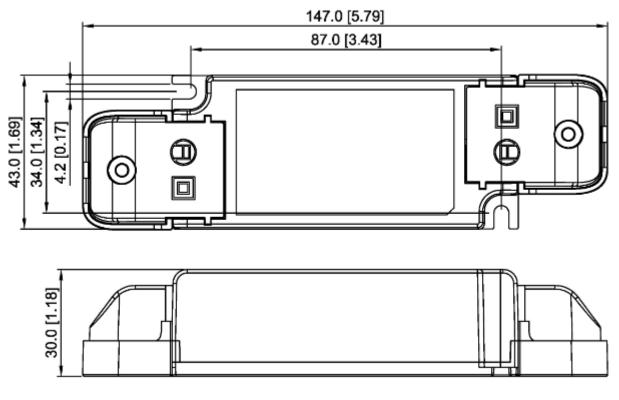
19.5



Dimensions

0

16.5



Unit: mm [inch]

Others

Warranty Policy

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

