

EZI-Set Compact Round LED Driver

The EZI-Set DCP-END series of compact LED drivers offers a wide range of configurable current setting, flickerfree performance in compact packages for various lighting fixtures, where form factor, quality of light, and high reliability are critical factors.

Product Offering

Power:	17 / 30 W	
Input:	220-240 V (50/60 Hz)	
Output:	275-450 mA 30-38V (17W)	
	450-800 mA 30-38V (30W)	
IP rating:	IP20	



17 / 30W (Ø 54.2 x 22.5 mm)

Features and Benefits

EZI-Set TM	Currents are easy to set with DIP switch settings
Compact Size	Compact packages sized for 2 power level
Flicker Free	World-class flicker free design ensures Percent Flicker less than 3%
5 Year Warranty	Backed by the industry leading warranty of 5 years gives confidence in long term and maintenance free performance





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Specification item	Value	Condition		
Nominal Input Voltage Range AC	220 – 240 VAC	Performance range		
Absolute Input Voltage Range AC	198–264 VAC	Safety operational range		
Maximum Input Current	0.10 A (17W) 0.15 A (30W)	Full output power @ 230V Input Voltage		
Input Frequency	50 / 60 Hz	Performance range		
Power Factor with Full Load	> 0.9	Full output power @ 230V Input Voltage		
Efficiency	85 % (17W) 89% (30W)	Full load @ 230V Input Voltage		
THD with Full Load	< 49 % (17W) < 10% (30W)	Full load @ 230V Input Voltage		
Maximum Inrush Current	< 3.0A	At 230 input 25°C cold start at 100% conditions. For more details in the attached graph		
No-load Power	< 0.5 W			
Start-up Time	< 0.5s			

	Value		Condition
Rated LED Output Power	8.3 – 17.1W 13.5 – 30.4W	(17W) (30W)	
Nominal LED Output Current (3 dip-switch control)	275 – 450 mA 450 – 800 mA	(17W) (30W)	@ 275 / 300 / 325 / 350 / 375 / 400 / 425 / 450mA @ 450 / 500 / 550 / 600 / 650 / 700 / 750 / 800mA
LED Output Current Tolerance	±5%		
LED Output Voltage Range DC	30 – 38VDC		
Open Loop (no load) Voltage	< 52VDC		driver will limit the output voltage to <52V if LED load is opened
Output Current Ripple LF	≤ 3%		< 2KHz
Output P _{st} LM	≤ 1.0		
Output SVM	≤ 0.4		





3 - Environmental Conditions		
Specification item	Value	Condition
Ambient Temperature (Ta) Range	-20 to 40°C	Higher ambient temperature are possible as long as Tc conforms to the operating case temperature range
Operating Case Temperature (Tc) Range	-20 to 85°C	Case Temperature measured at Tc mark on product
Max. Case Temperature (Tc max)	95°C	Max. temperature measured at Tc mark on product
Storage Temperature	-40 to 85°C	
Relative Humidity	80%	Non-condensing
Lifetime @ Tc max	50,000 hours	At Tc within Operating Case Temperature Range.
Ingress Protection	IP20	

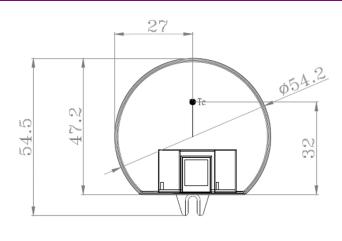
4 - Protection Features		
Specification item	Value	Condition
Over Current Protection (OCP)	YES	Automatic recovery
Over Voltage Protection (OVP)	YES	Automatic recovery
Output Short-Circuit Protection (SCP)	YES	Automatic recovery

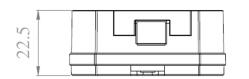


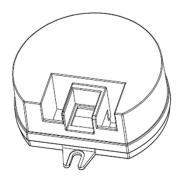
DATASHEET

5 - Outline Drawing

5.1a - Outline Drawing DCP-END017/1-PC450-38, DCP-END030/1-PC800-38







Ø 54.2 x 22.5 mm

5.1b - Mechanical Details Specification item Value Condition Length (L) 54.5 mm 54.2 mm Width (W) Height (H) 22.5 mm Weight 58g (17W) 67g (30W)

5.1c - Wiring and Conditions		
Specification item	Value	Condition
Output Connections (Poke-in Connector)	Ø 0.5 – 1.5 mm (20 – 16 AWG)	Solid / strand wire
Output Wire Strip Length	6 – 9 mm	
Max. Output Wire Length	20 cm	Total length of wiring

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/alue :N 55015:2019+A11:2020 EC 61000-3-2:2019 EC 61000-3-3:2013+A1:2019	Condition For Class C equipment
EC 61000-3-2:2019	For Class C equipment
	For Class C equipment
EC 61000-3-3:2013+A1:2019	
EC 61547 Section 5.2 Test des.: IEC 61000-4-2	4 kV contact discharge, 8 kV air discharge, level 3
EC 61547 Section 5.3 Test des.: IEC 61000-4-3	3 V/m, 80 - 1000 MHz, Modulation @ 1KHz, 80% AM
EC 61547 Section 5.5 Test des.: IEC 61000-4-4	± 1 kV on AC power port for 1 minute
EC 61547 Section 5.7 Test des.: IEC 61000-4-5	± 1 kV line to line (differential mode), ±2kV for line to line (common mode)
EC 61547 Section 5.6 Test des.: IEC 61000-4-6	3V, 0.15-80 MHz, Modulation @ 1KHz, 80% AM, 150Ω
EC 61547 Section 5.4 Test des.: IEC 61000-4-8	3A/m, 50/60Hz, level 2
EC 61547 Section 5.8, 5.9 Fest des.: IEC 61000-4-11	70% dip during 25 cycles @ 50Hz, 30 cycles @ 60Hz 0% dip during ½ cycles
	C 61547 Section 5.2 est des.: IEC 61000-4-2 C 61547 Section 5.3 est des.: IEC 61000-4-3 C 61547 Section 5.5 est des.: IEC 61000-4-4 C 61547 Section 5.7 est des.: IEC 61000-4-5 C 61547 Section 5.6 est des.: IEC 61000-4-6 C 61547 Section 5.4 est des.: IEC 61000-4-8 C 61547 Section 5.8, 5.9

7 - Safety Agency Approvals

Specification item	Value	Condition
ENEC* / CE	EN 61347-1:2015, EN 61347-2-13:2014/A1:2017	LED Modules & EN55015 (EMC compliance)



* ENEC certification is in-progress



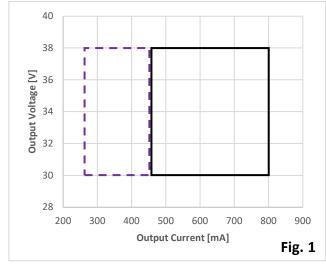
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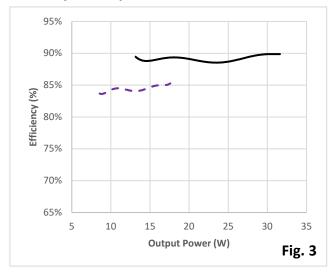
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9 - Graphs

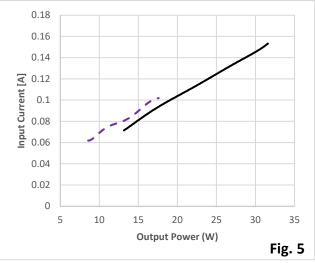
Operating Window



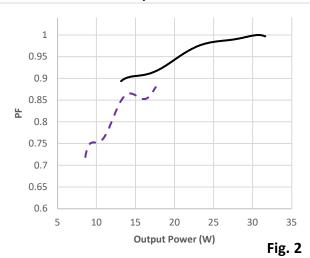
Efficiency vs. Output Power



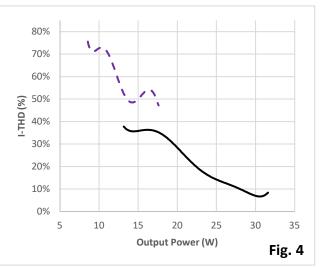
Input Current vs. Output Power

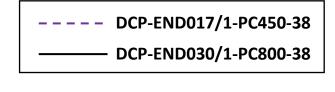


Power Factor vs Output Power



I-THD vs. Output Power





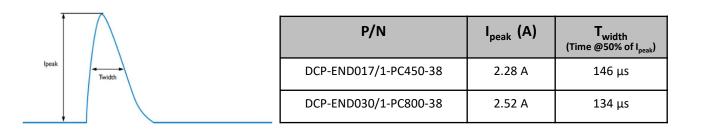
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10 - Inrush Current



11 - Estimated Maximum Number of Drivers per Miniature Circuit Breaker (MCB)*

P/N	B10	B13	B16	B20	C10	C13	C16	C20
DCP-END017/1-PC450-38	60	78	96	120	70	91	112	140
DCP-END030/1-PC800-38	40	52	64	80	47	61	75	93

12 - Ordering Info		
Specification item	Value	Condition
17W Round Driver	DCP-END017/1-PC450-38	
30W Round Driver	DCP-END030/1-PC800-38	

* Estimation based on typical MCB characteristics; recommend users to calculate the actual number with MCB parameters intended to be used

