

LED Driver

UT-30-xx / UT-40-xx



Features



- Independent super slim design
- Flicker-free
- Captured terminal screws
- Protections: opencircuit, shortcircuit, overload, overtemperature
- SELV equivalent
- DC input compatible (176-280VDC)
- Differential mode 2kV and common mode 2kV surge immunity
- Suitable for protection class I&II luminaires
- Protection class II



Selection Guide

Model No. ⁽¹⁾	Nominal Voltage (V)	Nominal Current (A)	Power Factor (λ)	THD Full load (%)	Max. Output (W)	Output Current (A)	Output Voltage (V)	No Load Voltage (V)	Efficiency Full Load (%)
UT-40-24	220-240	0.25	0.95	20	40	0-1.67	24	25.2	86
UT-40-12	220-240	0.25	0.95	20	40	0-3.33	12	12.6	85
UT-30-24	220-240	0.2	0.95	20	30	0-1.25	24	25.2	85
UT-30-12	220-240	0.2	0.95	20	30	0-2.50	12	12.6	84

(1). The suffix "C" refers to the C8 terminal on the input of the driver. No suffix "C" refers to the screw terminal on the input of the driver.

Input Parameters

Parameter	Condition	Min.	Typ.	Max.																				
Input Voltage Range	AC Input	198VAC	--	264VAC																				
	DC Input	176VDC	--	280VDC																				
Rated Input Frequency	AC Input	--	50/60Hz	--																				
No-load Power Consumption		--	--	0.5W																				
Standby Power Consumption		--	--	N/A																				
Inrush Current	Cold Start@230V	35A/200us																						
Max.units Per Circuit Breaker																								
<table><tr><td>Circuit Breaker</td><td colspan="4">Circuit Breaker Current</td></tr><tr><td>Typ.</td><td>10A</td><td>13A</td><td>16A</td><td>20A</td></tr><tr><td>B</td><td>7</td><td>9</td><td>11</td><td>14</td></tr><tr><td>C</td><td>15</td><td>20</td><td>25</td><td>31</td></tr></table>					Circuit Breaker	Circuit Breaker Current				Typ.	10A	13A	16A	20A	B	7	9	11	14	C	15	20	25	31
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Typ.	10A	13A	16A	20A																				
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C	15	20	25	31																				

Output Parameters

Parameter	Condition	Min.	Typ.	Max.
Output Accuracy	Full Load@230V	--	±5%	--
Ripple & Noise	Low Frequency < 120Hz, Full Load@230VAC	--	--	5%
Pst LM		--	--	1
SVM		--	--	0.4
Galvanic Isolation	SELV			
Short-Circuit Protection (SCP)	Auto-Recover If Fault Is Removed			
Over-Voltage Protection (OVP)	N/A			
Over-Current Protection (OCP)	Auto-Recover If Fault Is Removed			

General Parameters

Parameter	Condition	Value
Ambient Temperature Range t_a		-20...+45°C
Maximum Case Temperature t_c	Measured on t_c point indicated of the product label	90°C/80°C
Max.Case Temp.In Fault Condition		110°C
Storage Temperature Range		-20...+70°C

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Relative Humidity	Non Condensing	5...85%
Withstand Voltage	I/P-O/P	3.75kVAC, I leakage<5mA, 60s
Surge Transient Protection	L-N, L/N-PE	2kV, 2kV
Environmental Rating		Indoor
IP Rating		IP20
Mains Switching Cycles		> 100,000
Expected Lifetime	$t_{cmax}=45^{\circ}\text{C}$, 0.2%/1000h failure rate	50,000h

Physical Parameters

Housing Material	PC
Type of connection	Screw terminal
Dimensions (LxWxH)	155x50x16mm
Mounting hole spacing	117x44mm
Weight	110g $\pm$ 5g

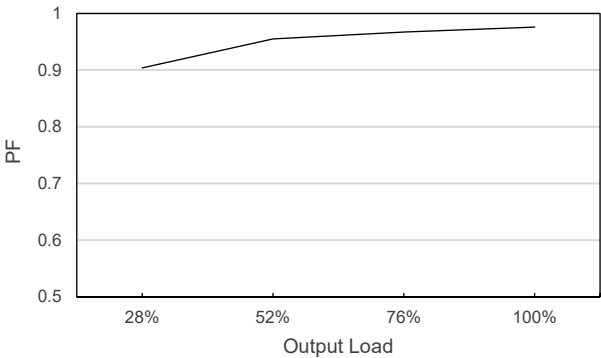
Standards

Safety Standards	EN 61347-1, EN 61347-2-13
Performance	EN 62384
EMC Standards	EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61547

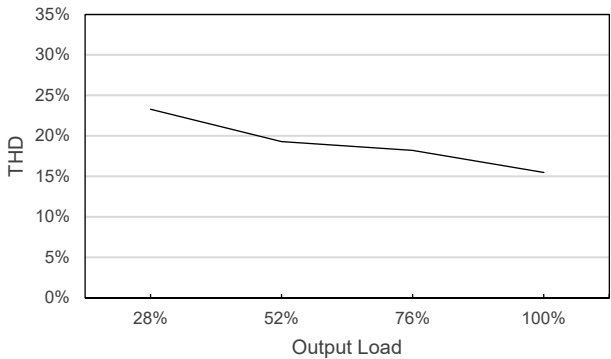
*ALL parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.

Product Characteristic Curve

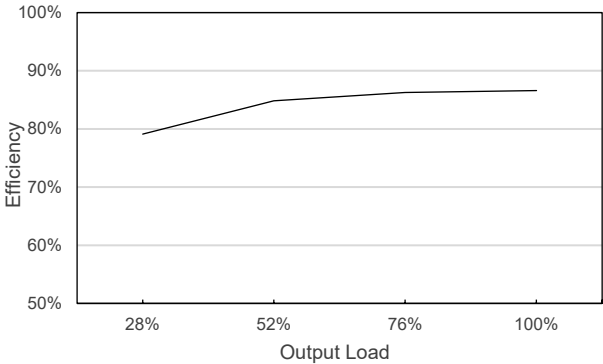
Power Factor vs Load



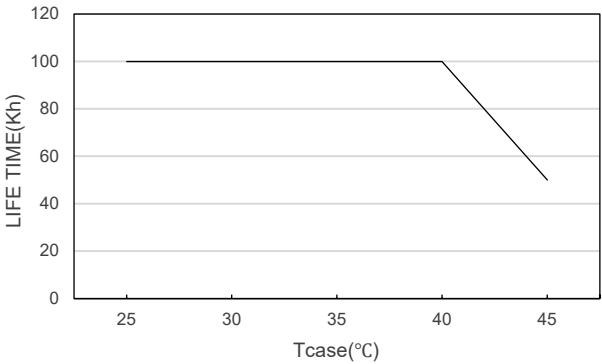
Total Harmonic Distortion vs Load



Efficiency vs Load



Life Time vs Case Temperature

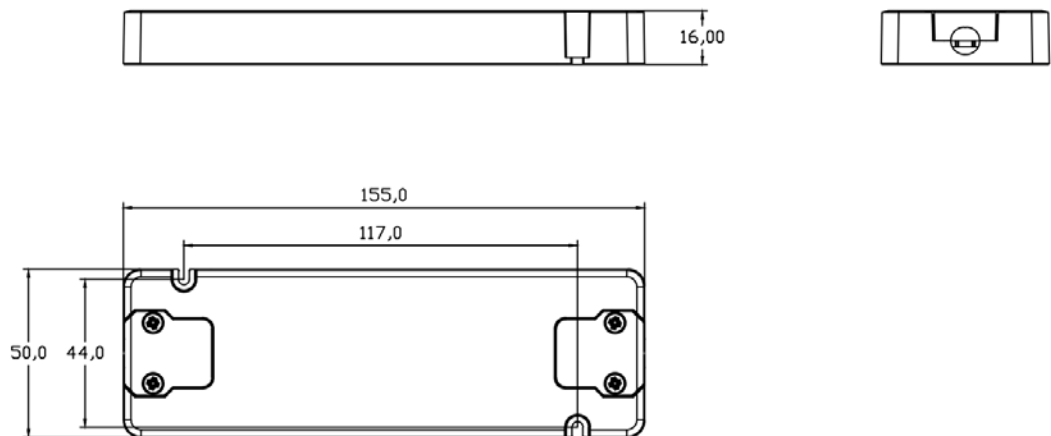


LED Driver

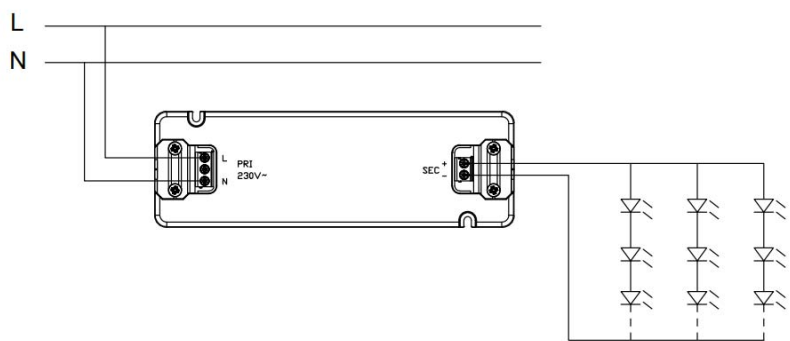
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Dimension Drawing(mm)



Wiring Diagram



PRI

Cable cross-section: 0.75-1.5mm²

Stripping: 6mm

SEC

Cable cross-section: 0.5-1.5mm²

Stripping: 6mm

Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs.