LED Driver

UT-30-xx

Features



- Independent super ultra design
- Non-dimmable constant voltage LED driver
- 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.	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-30-12	220-240	0.2	0.95	20	30	0-2.50	12	12.6	87
UT-30-24	220-240	0.2	0.95	20	30	0-1.25	24	25.2	87

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

Circuit Breaker	Circuit Breaker Current			
Typ.	10A	13A	16A	20A
B	7	9	11	14
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	--	--	10%
Pst LM		--	--	1
SVM		--	--	0.4
Galvanic Isolation	SELV			
Short-Circuit Protection (SCP)	Auto-Recover If Fault Is Removed			

Over-Temperature Protection (OTP)	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℃
Maximum Case Temperature t_c	Measured on t_c point indicated of the product label	80℃ (UT-30-12)
		85℃ (UT-30-24)
Max.Case Temp.In Fault Condition		110℃
Storage Temperature Range		-20...+70℃
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	At t_{cmax}, 0.2%/1000h failure rate	50,000h

Physical Parameters

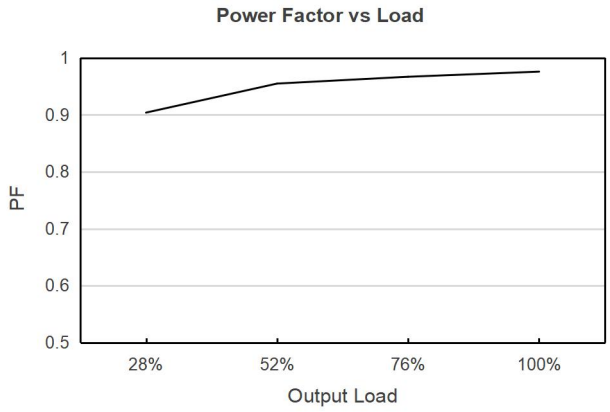
Housing Material	PC
Type of connection	Screw terminal
Dimensions (LxWxH)	155x50x16mm
Mounting hole spacing	117x44mm
Weight	110g±5g

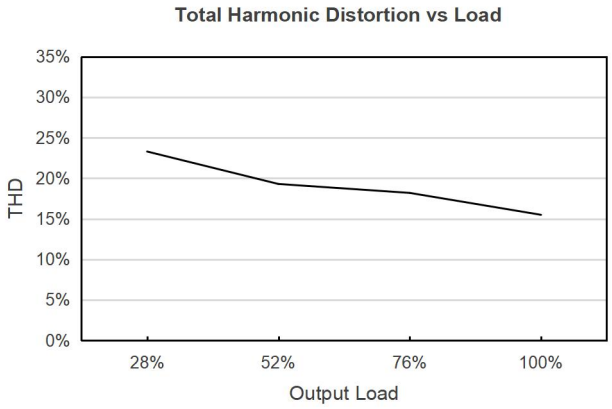
Standards

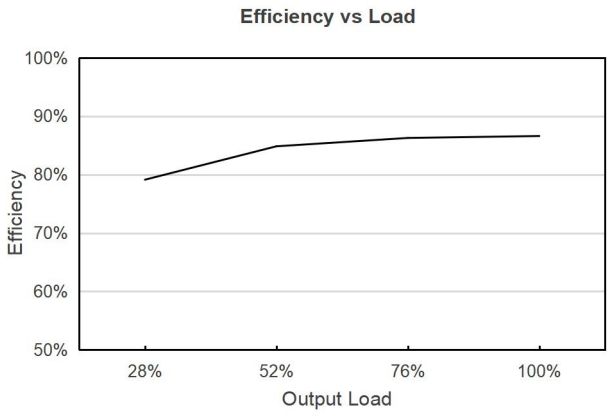
Safety Standards	EN 61347-1, EN 61347-2-13, EN60335
Performance	EN 62384
EMC Standards	EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61547

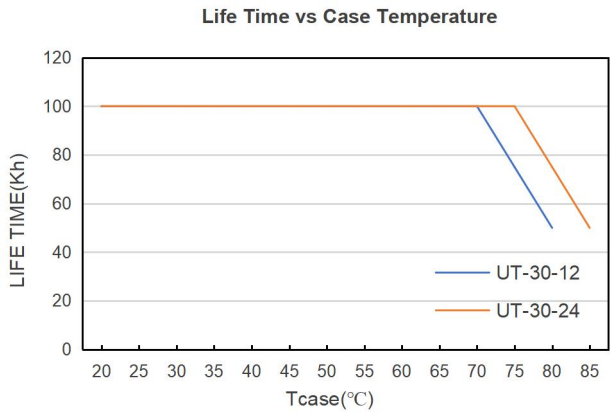
*ALL parameters NOT specially mentioned are measured at 230VAC input, rated current and 25℃ of ambient temperature.

Product Characteristic Curve



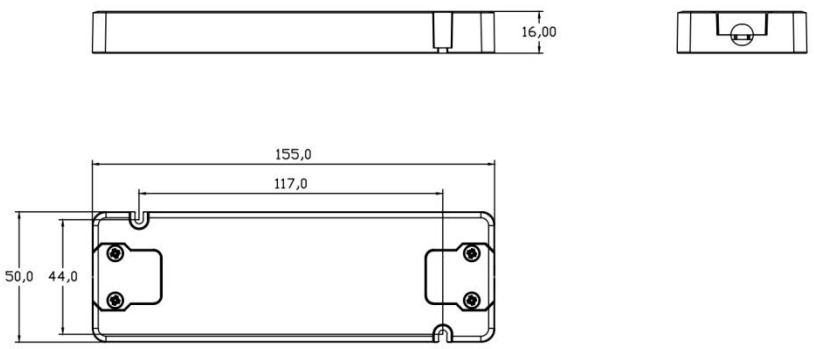




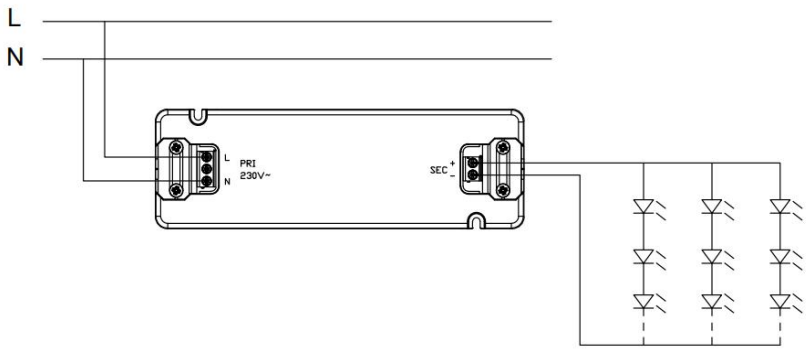


Appearance of Size

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.