ON/OFF Constant Voltage LED Driver

UT-150-xx-IP44

Features

- Independent 18mm ultra thin design
- Moisture protection solution for cabinets and mirror cabinets
- Flicker-free, complying with CE Erp directive
- Primary and secondary sides come with leads
- Protections: opencircuit, shortcircuit, overload, overtemperature
- DC input compatible (176-280Vdc)
- SELV equivalent
- Suitable for protection class I & II luminaires
- Protection class II
- IP44 design

SELV IP44

Selection Guide

Model No.	Nominal Voltage (V)	Nominal Current (A)	Power Factor (λ)	THD (%)	Max. Output (W)	Output Current (A)	Output Voltage (V)	Efficiency Full Load (%)
UT-150-12-IP44	220-240	0.70	0.95	10	120	0-10	12	92
UT-150-24-IP44	220-240	0.90	0.95	10	150	0-6.25	24	93

Note: 1. The product picture is for reference only. For details, please refer to the actual product.

2.All parameters NOT specially mentioned are measured at 25℃ of ambient temperature, 230VAC input, 50Hz, full load and after warm-up.

Input Parameters

Parameter	Condition	Min.	Typ.	Max.
Input Voltage Range	AC Input	198VAC	230VAC	264VAC
	DC Input	176VDC	--	280VDC
Input Frequency Range	AC Input	47Hz	50/60Hz	63Hz
No-load Power Consumption	@230VAC, 50Hz	--	--	0.5W
Inrush Current	Cold start@230VAC, 50Hz, full load	60A/400us		
Max.units Per Circuit Breaker*	B10	2		
	B13	3		
	B16	3		
	B20	4		
	C10	4		
	C13	6		
	C16	7		
	C20	9		

Note: *These are max. values calculated out of inrush current! Please consider not to exceed the maximum rated continuous current of the circuit breaker. Calculation uses typical values from ABB series S200 as a reference. Actual values may differ due to used circuit breaker types and installation environment.

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Output Parameters

Parameter	Condition	Min.	Typ.	Max.
Output Accuracy	@230VAC, 50Hz, full load	--	±5%	--
Ripple & Noise*	Low frequency<120Hz,@230VAC, 50Hz, full load	--	--	5%
Pst LM	@230VAC, 50Hz, full load	--	--	1
SVM	@230VAC, 50Hz, full load	--	--	0.4
Galvanic Isolation	Isolated			
Over-Temperature Protection (OTP)	Re-power on to Recover If Fault Is Removed			
Short-Circuit Protection (SCP)	Auto-Recovery If Fault Is Removed			
Over-Current Protection (OCP)	Auto-Recovery If Fault Is Removed			

Note: *Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor.

General Parameters

Parameter	Condition	Value
Ambient Temperature Range t_a		-20 ... +45°C
Maximum Case Temperature t_c	Measured on tc point indicated of the product label	90°C
Max.case Temp.In Fault Condition		110°C
Storage Temperature Range		-20...70°C
Relative Humidity	Non condensing	5...85%
Surge Transient Protection	L-N|L/N-PE	2|2kV
Environmental Rating		Indoor
IP Rating		IP44
Mains Switching Cycles		>100,000
Expected Lifetime	t_{cmax}=90°C, 0.2%/1,000h failure rate	50,000h

Physical Parameters

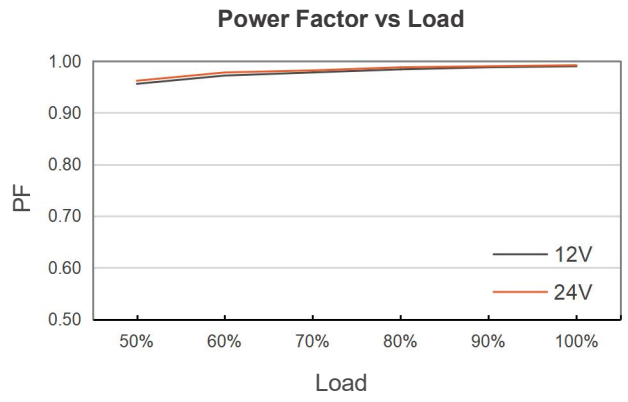
Housing Material	PC
Type of Connection	Cable
Dimensions(LxWxH)	205x58x18mm
Mounting Hole Spacing	193x50mm
Weight	280g (Typ.)

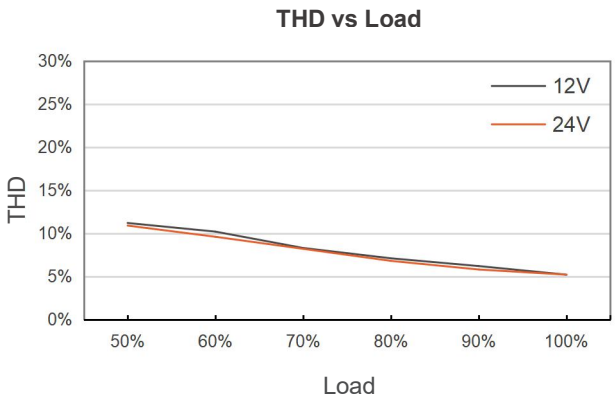
Standards*

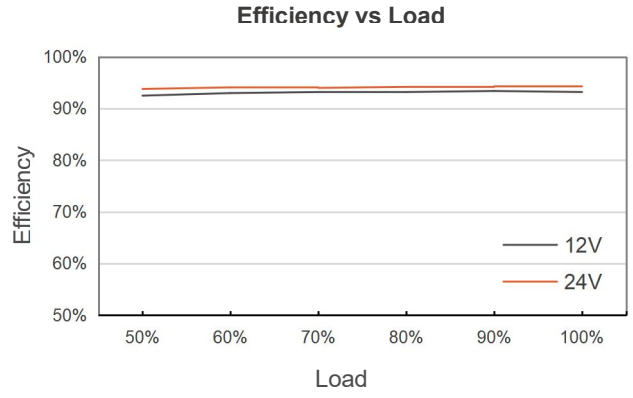
Safety Standards	EN 61347-1, EN 61347-2-13, EN 62493
Performance	EN 62384
EMC Standards	EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61547

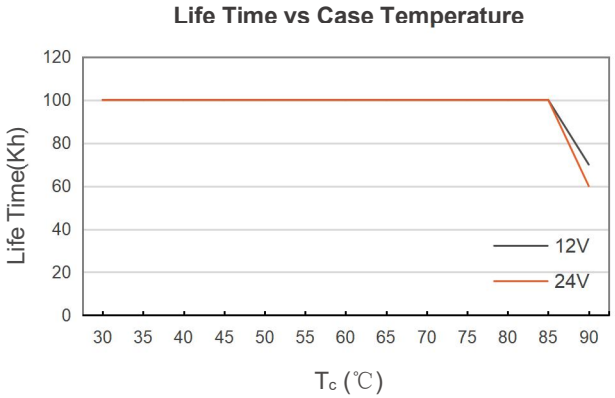
Note: *The above refers to the standards the product design complies with. For specific certifications obtained, please refer to page 1.

Product Characteristic Curve



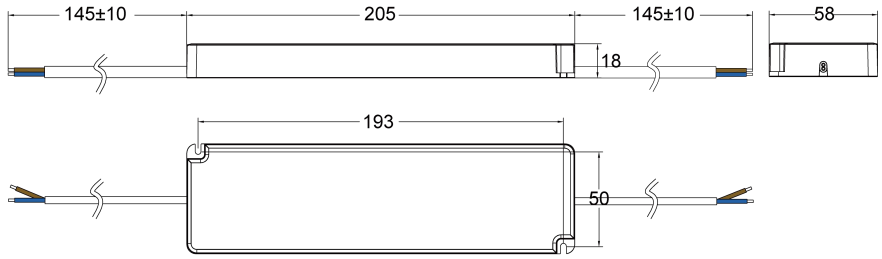




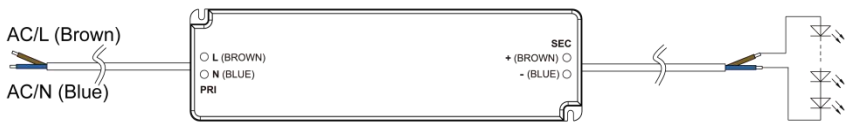


Appearance of size

Dimension Drawing (mm)



Wiring Diagram



Wire information

Function	Wire color	Type
VAC in (L)	Brown	VDE H03VVH2-F 2x0.75
VAC in (N)	Blue	
LED+	Brown	VDE H03VVH2-F 2x0.75
LED-	Blue	

Note: 1. Hot plug-in is not supported. Always connect or disconnect LED loads with the power completely turned off.

2. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.