

ON/OFF Constant Voltage LED Driver



UT-75-xx-IP44

Features



- Independent 16mm 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



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-75-12-IP44 | 220-240 | 0.46 | 0.95 | 15 | 75 | 0-6.25 | 12 | 88 |
| UT-75-24-IP44 | 220-240 | 0.46 | 0.95 | 15 | 75 | 0-3.12 | 24 | 89 |

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°C 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 | -- | -- | 0.3W |
| Inrush Current | Cold start@230VAC, 50Hz, full load | 70A/200us | | |
| Max.units Per Circuit Breaker* | B10 | 4 | | |
| | B13 | 5 | | |
| | B16 | 6 | | |
| | B20 | 7 | | |
| | C10 | 8 | | |
| | C13 | 10 | | |
| | C16 | 13 | | |
| C20 | 16 | | | |

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 | -- | -- | 15% |
| Pst LM | @230VAC, 50Hz, full load | -- | -- | 1 |
| SVM | @230VAC, 50Hz, full load | -- | -- | 0.4 |
| Galvanic Isolation | SELV | | | |
| Over-Temperature Protection (OTP) | Auto-Recovery 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 t_c 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 | $T_{cmax}=90^{\circ}C$, 0.2%/1000h failure rate | 50,000h |

Physical Parameters

| | |
|-----------------------|----------------------------------|
| Housing Material | PC |
| Type of Connection | Cable |
| Dimensions(LxWxH) | 175x58x16mm |
| Mounting Hole Spacing | 163x50mm |
| Weight | 281g@12V (Typ.), 243g@24V (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 |

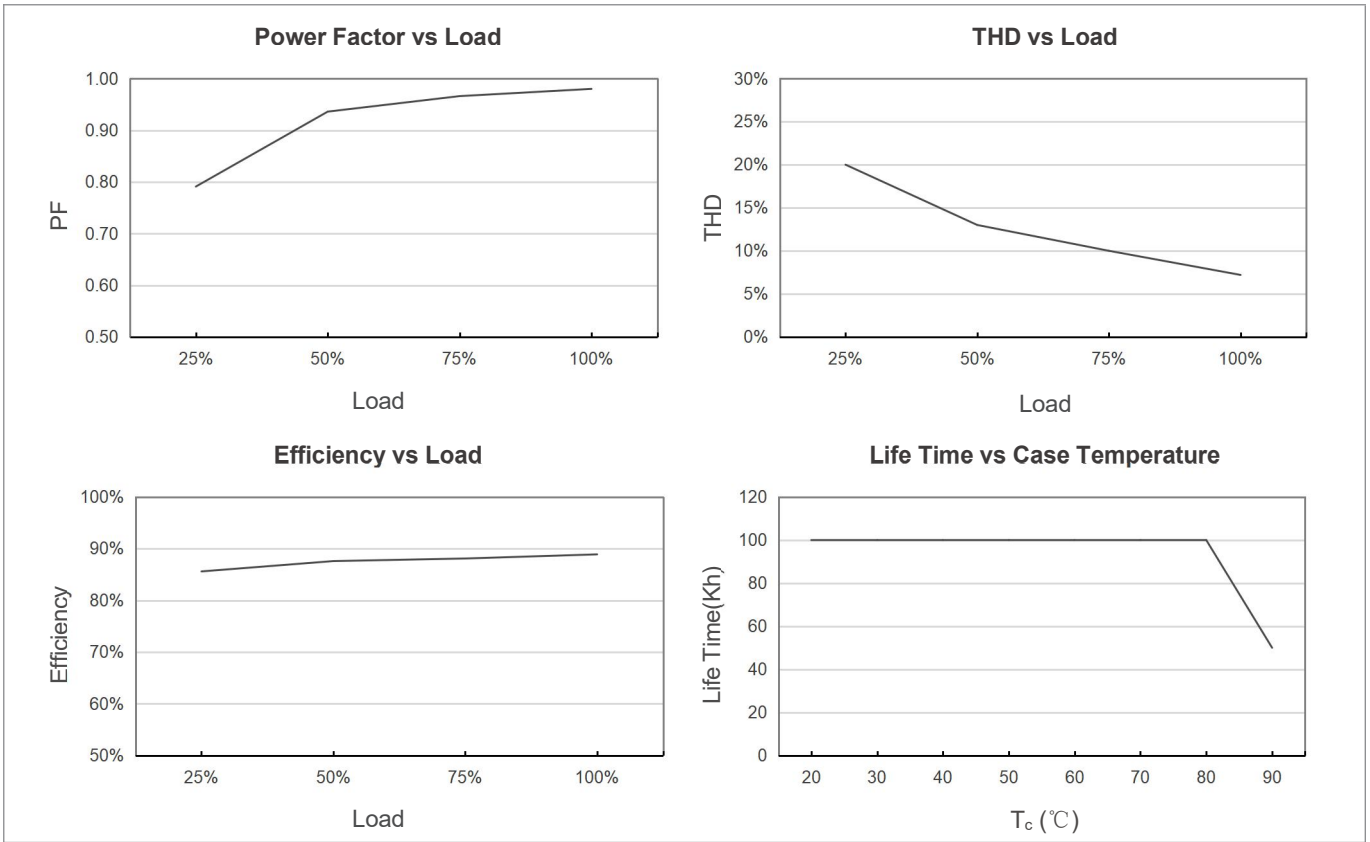
Note: *The above refers to the standards the product design complies with. For specific certifications obtained, please refer to page 1.

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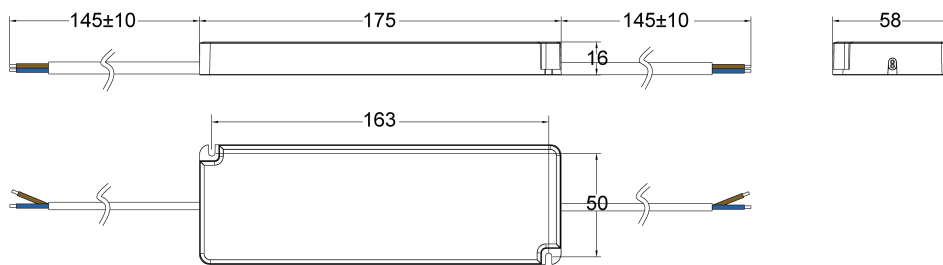
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Product Characteristic Curve

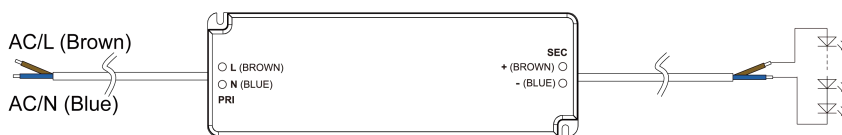


Appearance of size

Dimension Drawing (mm)



Wiring Diagram



Wire information

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

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.