

200 Watt LED Driver (IP67)

200W	12V 24V	IP67	Over Current Protection	Short Circuit Protection
Commercial Grade		ROHS COMPLIANT	CE	5 YEAR WARRANTY

■ PRODUCT DESCRIPTION

An IP67-rated 200-watt LED driver, this driver is fully sealed for use in LED projects that require water-resistance. The driver is available in a choice of 12-volt or 24-volt versions, each able to power up to 200W of corresponding voltage LED lighting.

The moisture-proof power supply is suitable for LED strip lighting products (that includes white LEDs, single-colour LEDs, dual-white CCT LEDs and colour-changing RGB/RGBW LEDs). Because the unit is fully sealed with hardwired connections, it is safe to touch. There is no minimum-load requirement.

This item is RoHS compliant and conforms to all UK safety standards. Input voltage 100-240v AC. Output voltage 12v or 24v.



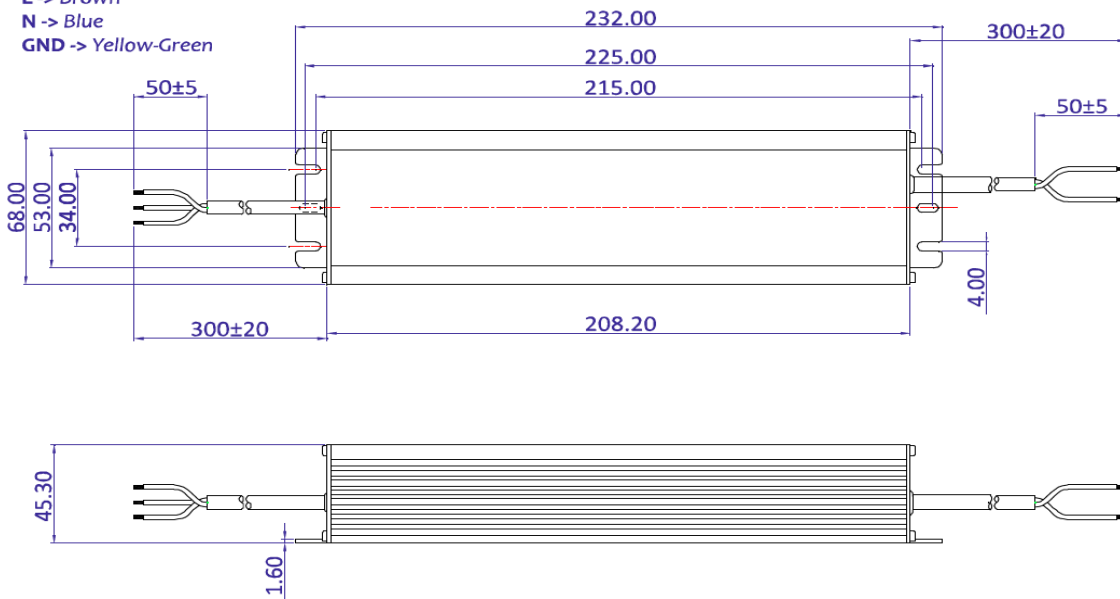
INPUT:

L -> Brown
N -> Blue
GND -> Yellow-Green

OUTPUT:

V+ -> Brown
V- -> Blue

DC



PRODUCT SPECIFICATION

Output	12V	24V
Rated Voltage	12V	24V
Rated Current	16A	8.3A
Rated Power	200W	200W
Line Regulation	± 1%	
Load Regulation	± 3%	
Voltage Precision	± 5%	
Voltage Ripple	< 3% vOUT	< 2% vOUT
Turn-on Delay Time	0.5s for 100% load 230VAC / 1s for 100% load 115VAC	
Input	12V	24V
Voltage Range	90 ÷ 305VAC (Refer to Input Voltage vs. Load Curve)	
Frequency Range	47 ÷ 63Hz	
Efficiency (typ.)	90%	91%
AC current (typ.)	2.0A	
Inrush current (max.)	30A / 230VAC	
Leakage Current (max.)	0.25mA / 240VAC	
Protections	12V	24V
Over Voltage	13.2 ÷ 15.6VDC / 26.4 ÷ 31.2VDC Type: shut off output voltage, restart on to recovery.	
Over Current	100-160% rated output current Type: hiccup mode, auto-recovery.	
Over Temperature	Temperature Tc > 90°C Type: shut off output voltage, re-power on to recovery.	
Short Circuit	Type: decrease of input power, auto-recovery..	
Working Environment	12V	24V
Working Temperature	-40°C ÷ 60°C (Refer to Derating Curve)	
Working Humidity	20 ÷ 90% R20 ÷ 95% RH non-condensingH non-condensing	
Storage Temp and Humidity	-40°C ÷ 85°C, 20 ÷ 95% RH non-condensing	
Degree Of Protection	IP67	
Vibration	10 to 500Hz sweep at 1G for 1 hour for each X, Y, Z axes	
Safety & EMC Regulations	12V	24V
Safet Standards	CE EN61347-1; EN61347-2-13	
Withstand Voltage	IN/OUT: 3.75kVAC; IN/GND: 1.6kVAC; OUT/GND: 1.6kVAC; 60s, < 10mA	
Isolation Resistance	IN/OUT, IN/GND, OUT/GND > 100MΩ (500VDC/60s)	
EMC Standards	CE EN55015; IEC61000-3-2; IEC61000-3-3; IEC61547	
Ground Resistance	< 0.1Ω (60S/25A)	
Other	12V	24V
Input Wire	CCC+VDE 3 x 1.0mm ² , length = 300 ± 10mm	
Output Wire	CCC+VDE 2 x 1.0mm ² , length = 300 ± 10mm	
Dimensions	232.0 * 68.0 * 43.5 mm	
Weight and Packing	1350 ± 100g	
Product Code	IN-200-12-IP	IN-200-24-IP

■ IMPORTANT INSTALLATION INFORMATION

- Installation should be carried out in accordance with the latest edition of the National Wiring Regulations. If in doubt, consult a qualified electrician.
- Handle with care – LED strips are delicate!
- When installing, be sure to allow for later access to all products (in the event of replacement/refits).
- Attention shall be paid to the positive and negative poles of the wires during installation, and whether the power supply conforms to required voltages. This is essential to avoid damage.
- Be careful not to scratch, distort, or irregularly bend / twist the LED strips during installation. Otherwise you may cause irreparable damage to the product.
- To ensure the product's longevity and reliability, please do not bend an LED strip into an arc with a diameter less than 10mm – doing so will result in a diameter that's too small, and will damage the product.
- If the actual length of the LED strip exceeds the specified maximum length, it will lead to overload, overheating and uneven brightness.
- IP65 LED strips are suitable for internal use only.
- IP67 LED strips can be used externally. (If you have to cut a sealed IP67 strip yourself, then you must ensure the ends are re-glue sealed to IP67 standards before installation.)
- Keep the LED driver away from all direct heat sources – e.g., low-voltage lamps.
- LED drivers must have unobstructed airflow, with a minimum area space of 100mm.

■ INSTALLATION GUIDANCE

- First, ensure that the surface onto which the LED strip will be applied is clean and free from grease.
- Test all products before installing them.
- Note – Always unreel your LED strips before testing (otherwise overheating and damage will occur).
- When cutting the LED strips to size, use the marked cut points.
- Peel off the LED strip's backing tape. Position the strip on the clean surface in the required location, and stick it into place using the self-adhesive backing.
- If the LED strip is being installed with the LEDs facing downwards or facing sideways (vertically), then consider using fixing clips, extra-strength adhesive, or an LED profile. This will provide for a permanent install.
- If the LED strip is being installed externally, the same applies: use fixing clips, extra-strength adhesive, or an LED profile for a permanent install.
- If the total LED strip lengths exceed the stated maximum run, then the LEDs must be wired to the power supply as multiple shorter strips, in parallel.