150W





Over Current Protection Short Circuit Protection









5 YEAR WARRANTY

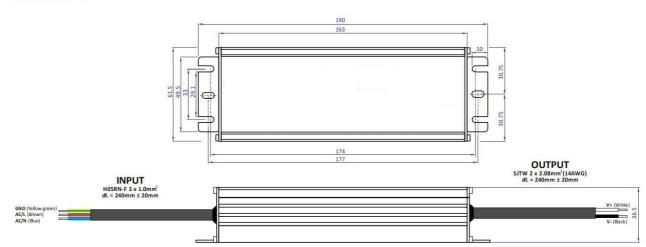
■ PRODUCT DESCRIPTION

IP67-rated for exterior projects and damp or humid locations, Moisture-proof 150-watt LED driver is available in 12-volt and 24-volt models. Both can power up to 150W of corresponding-voltage LED lighting.

This transformer is suitable for LED tape products (including 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.







PRODUCT SPECIFICATION

Rated Voltage 12V 24V Rated Dower 150W 150W Line Reglation ± 1% 150W Load Reglation ± 2% Voltage Precision ± 3% Voltage Precision ± 3% Voltage Precision ± 3% Voltage Ripple 250m/VP-P 300m/VP-P Turn-on Delay Time 0.5s for 100% load 230VAC / 1s for 100% load 11SVAC Input 12V 24V Voltage Range 200 ± 277VAC Frequency Range 47 ± 63Hz Efficiency (typ.) 90% 90.5% AC current (fyp.) 11A / 230VAC Inrush current (max.) 75A / 230VAC(25°C) Leakage Current (max.) 0.75mA/230VAC Protections 12V 24V Range: 105 + 150% Hilccup mode. Recovers automatically after fault condition is removed. Short Circuit Type: hiccup mode. Recovers automatically after fault condition is removed. Short Circuit Type: hiccup mode. Recovers automatically after fault condition is removed. Over Voltage Max. 18V Max. 35V Type: shut down output voltage. Re-power	Output	12V	24V
Rated Power 150W 150W 150W Line Reglation ± 1% ± 1% ± 2%	Rated Voltage	12V	24V
Line Reglation ± 1% Load Reglation ± 2% Voltage Precision ± 3% Voltage Ripple 250mVP-P 300mVP-P Turn-on Delay Time 0.5s for 100% load 230VAC / 1s for 100% load 115VAC Input 12V 24V Voltage Range 200 + 277VAC Frequency Range 47 + 63Hz Efficiency (typ.) 90% 90.5% AC current (typ.) 1A / 230VAC Inrush current (max.) 75A / 230VAC / 25°C) Leakage Current (max.) 0.75mA/230VAC Protections 12V 24V Range: 105 + 150% Hiccup mode. Recovers automatically after fault condition is removed. Short Circuit 7ype: hiccup mode. Recovers automatically after fault condition is removed. Short Circuit 315°C ± 10°C. shut down output voltage. Re-power to recovery. Working Environment 12V 24V Working Humidity 20 + 90% R20 + 95% RH non-condensing H non-condensing Storage Temp and Humidity -40°C + 85°C, 20 + 95% RH non-condensing H non-condensing Saftey & EMC Regulations 12V 24V Withstand Voltage 11P67 Vibration 10 to 500Hz sweep at 1G for 1 hour for each X, Y, Z axes Saftey & EMC Regulations 12V 24V Withstand Voltage 11N/OUT; 1N/CND, OUT/GND > 106N/AC; 60s, < 10mA Isolation Resistance 1N/OUT; 1N/CND, OUT/GND > 100MQ (500VCC/60s) EMC Standards CE ENS501s; IECG1000-3-2; IECG1000-3-3; IECG1547 Ground Resistance < 01Ω (60s/25A) Other 12V 24V Input Wire CCC+VDE 3 x 1.0mm2, length = 300 ± 10mm Dimensions 40 56kg	Rated Current	12.5A	6.25A
Load Reglation	Rated Power	150W	150W
Voltage Precision	Line Reglation	± 1%	
Voltage Ripple 250mVP-P 300mVP-P Turn-on Delay Time 0.5s for 100% load 230VAC / 1s for 100% load 115VAC Input 12V 24V Voltage Range 200 ÷ 277VAC Frequency Range 47 + 63Hz Efficiency (typ.) 90% 90.5% AC current (typ.) 1A / 230VAC Inrush current (max.) 75A / 230VAC (25°C) Leakage Current (max.) 0.75mA/230VAC Protections 12V 24V Range: 105 ÷ 150% Hiccup mode. Recovers automatically after fault condition is removed. Short Circuit Type: hiccup mode. Recovers automatically after fault condition is removed. Max. 18V Max. 35V Type: shut down output voltage. Re-power on to recovery. Over Voltage 115°C ± 10°C. shut down output voltage. Re-power to recovery. Working Environment 12V 24V Working Humidity 20 ÷ 90% R20 ÷ 95% RH non-condensingH non-condensing Vorage Temp and Humidity 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 ÷ 60°C (Refer to Derating Curve)	Load Reglation	± 2%	
Turn-on Delay Time	Voltage Precision	± 3%	
Input	Voltage Ripple	250mVP-P	300mVP-P
Voltage Range 200 ÷ 277VAC Frequency Range 47 ÷ 63Hz Efficiency (typ.) 90% 90.5% AC current (typ.) 1A / 230VAC Inrush current (max.) 75A / 230VAC(25°C) Leakage Current (max.) 0.75mA/230VAC Protections 12V 24V Range: 105 ÷ 150% Hiccup mode. Recovers automatically after fault condition is removed. Short Circuit Type: hiccup mode. Recovers automatically after fault condition is removed. Max. 18W Max. 35V Over Voltage Type: hiccup mode. Recovers automatically after fault condition is removed. Working Environment Max. 18W Max. 35V Over Temperature 115°C ± 10°C. shut down output voltage. Re-power on to recovery. Working Environment 12V 24V Working Humidity 20 ÷ 90% R20 ÷ 95% RH non-condensingH non-condensing Storage Temp and Humidity 20 ÷ 90% R20 ÷ 95% RH non-condensingH non-condensing Degree Of Protection IP67 Vibration 10 to 500Hz sweep at 1G for 1 hour for each X, Y, Z axes Saftety & EMC Regulations 12V 24V Saftety & EMC Regulations 12V	Turn-on Delay Time	0.5s for 100% load 230VAC / 1s for	100% load 115VAC
Frequency Range	Input	12V	24V
Efficiency (typ) 90% 90.5% AC current (typ) 1A / 230VAC Inrush current (max.) 75A / 230VAC(25°C) Leakage Current (max.) 0.75mA/230VAC Protections 12V 24V Annes: 105 ÷ 150% Hiccup mode. Recovers automatically after fault condition is removed. Short Circuit Type: hiccup mode. Recovers automatically after fault condition is removed. Over Voltage Max. 18V Max. 35V Over Voltage Type: shut down output voltage. Re-power on to recovery. Over Temperature 115°C ± 10°C. shut down output voltage. Re-power to recovery. Working Environment 12V 24V Working Humidity 20 ÷ 90% R20 ÷ 95% RH non-condensing Curve) Working Humidity 20 ÷ 90% R20 ÷ 95% RH 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 Saftey & EMC Regulations 12V 24V Safet Standards CE EN61347-1; EN61347-2-13 IN/OUT: 3.75kVAC; IN/GND: 1.6kVAC; OUT/GND: 1.6kVAC; 60s,<10mA	Voltage Range	200 ÷ 277VAC	
AC current (typ.) Inrush current (max.) 75A / 230VAC Inrush current (max.) 75A / 230VAC(25°C) Leakage Current (max.) O.75mA/230VAC Protections 12V 24V Range: 105 ÷ 150% Hiccup mode. Recovers automatically after fault condition is removed. Short Circuit Type: hiccup mode. Recovers automatically after fault condition is removed. Max. 18V Max. 35V Type: shut down output voltage. Re-power on to recovery. Over Voltage 115°C ± 10°C. shut down output voltage. Re-power to 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 1P67 Vibration 10 to 500Hz sweep at 1G for 1 hour for each X, Y, Z axes Saftey & EMC Regulations 12V 24V Safet Standards CE ENG1347-1; ENG1347-2-13 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 (605/25A) Other 12V 24V Input Wire CCC+VDE 2 x 1.0mm2, length = 300 ± 10mm Output Wire CCC+VDE 2 x 1.0mm2, length = 300 ± 10mm Dimensions 190 * 61.5 * 36.5 mm Weight and Packing O.56kg	Frequency Range	47 ÷ 63Hz	
Inrush current (max.) 75A / 230VAC (25°C) Leakage Current (max.) 0.75mA/230VAC Protections 12V 24V Range: 105 ÷ 150% Hiccup mode. Recovers automatically after fault condition is removed. Short Circuit Type: hiccup mode. Recovers automatically after fault condition is removed. Max. 18V Max. 35V Over Voltage Over Temperature 115°C ± 10°C. shut down output voltage. Re-power on to recovery. Working Environment 12V 24V Working Temperature 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 1P67 Vibration 10 to 500Hz sweep at 1G for 1 hour for each X, Y, Z axes Saftey & EMC Regulations 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 > 100M\(Omega) (500VDC/60s) EMC Standards CE EN55015; IEC61000-3-2; IEC61000-3-3; IEC61547 Ground Resistance < 0.1\(Omega) (605/25A) Other 12V 24V Input Wire CCC+VDE 2 x 1.0mm2, length = 300 ± 10mm Dimensions 190 * 61.5 * 36.5 mm Weight and Packing 0.56kg	Efficiency (typ.)	90%	90.5%
Leakage Current (max.) 0.75mA/230VAC Protections 12V 24V Range: 105 ÷ 150% Hiccup mode. Recovers automatically after fault condition is removed. Short Circuit Type: hiccup mode. Recovers automatically after fault condition is removed. Over Voltage Max. 18V Max. 35V Type: shut down output voltage. Re-power on to recovery. Over Temperature 115°C ± 10°C. shut down output voltage. Re-power to recovery. Working Environment 12V 24V 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 Saftety & EMC Regulations 12V 24V Saftet Standards CE EN61347-1; EN61347-2-13 Withstand Voltage IN/OUT; 3.75kVAC; IN/GND: 1.6kVAC; OUT/GND: 1.6kVAC; 60s,< 10mA	AC current (typ.)	1A / 230VAC	
Protections12V24VOverloadRange: 105 ÷ 150% Hiccup mode. Recovers automatically after fault condition is removed.Short CircuitType: hiccup mode. Recovers automatically after fault condition is removed.Over VoltageMax. 18V Max. 35V Type: shut down output voltage. Re-power on to recovery.Over Temperature115°C ± 10°C. shut down output voltage. Re-power to recovery.Working Environment12V24VWorking Temperature-40°C ÷ 60°C (Refer to Derating Curve)Working Humidity20 ÷ 90% R20 ÷ 95% RH non-condensingH non-condensingStorage Temp and Humidity-40°C ÷ 85°C, 20 ÷ 95% RH non-condensingDegree Of ProtectionIP67Vibration10 to 500Hz sweep at 1G for 1 hour for each X, Y, Z axesSaftety & EMC Regulations12V24VSaftet StandardsCE EN61347-1; EN61347-2-13Withstand VoltageIN/OUT; 3.75kVAC; IN/GND; 1.6kVAC; OUT/GND: 1.6kVAC; 60s,< 10mA	Inrush current (max.)	75A / 230VAC(25°C)	
OverloadRange: 105 ÷ 150% Hiccup mode. Recovers automatically after fault condition is removed.Short CircuitType: hiccup mode. Recovers automatically after fault condition is removed.Max. 18V Max. 35V Over VoltageMax. 18V Max. 35V Type: shut down output voltage. Re-power on to recovery.Over Temperature115°C ± 10°C. shut down output voltage. Re-power to recovery.Working Environment12V24VWorking Temperature-40°C ÷ 60°C (Refer to Derating Curve)Working Humidity20 ÷ 90% R20 ÷ 95% RH non-condensingH non-condensingStorage Temp and Humidity-40°C ÷ 85°C, 20 ÷ 95% RH non-condensingDegree Of ProtectionIP67Vibration10 to 500Hz sweep at 1G for 1 hour for each X, Y, Z axesSaftey & EMC Regulations12V24VSafet StandardsCE EN61347-1; EN61347-2-13Withstand VoltageIN/OUT: 3.75kVAC; IN/GND: 1.6kVAC; OUT/GND: 1.6kVAC; 60s,< 10mA	Leakage Current (max.)	0.75mA/230VAC	
OverloadHiccup mode. Recovers automatically after fault condition is removed.Short CircuitType: hiccup mode. Recovers automatically after fault condition is removed.Over VoltageMax. 18V Max. 35V Type: shut down output voltage. Re-power on to recovery.Over Temperature115°C ± 10°C. shut down output voltage. Re-power to recovery.Working Environment12V 24VWorking Temperature-40°C ÷ 60°C (Refer to Derating Curve)Working Humidity20 ÷ 90% R20 ÷ 95% RH non-condensingH non-condensingStorage Temp and Humidity-40°C ÷ 85°C, 20 ÷ 95% RH non-condensingDegree Of ProtectionIP67Vibration10 to 500Hz sweep at 1G for 1 hour for each X, Y, Z axesSaftey & EMC Regulations12V 24VSafet StandardsCE EN61347-1; EN61347-2-13Withstand VoltageIN/OUT. 3.75kVAC; IN/GND: 1.6kVAC; OUT/GND: 1.6kVAC; 60s,< 10mA	Protections	12V	24V
removed. Max. 18V Max. 35V Type: shut down output voltage. Re-power on to recovery. Over Temperature 115°C ± 10°C. shut down output voltage. Re-power to 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 Saftey & EMC Regulations Saftey & EMC Regulations 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 2 x 1.0mm2, length = 300 ± 10mm Output Wire CCC+VDE 2 x 1.0mm2, length = 300 ± 10mm Dimensions 190 * 61.5 * 36.5 mm Weight and Packing O.56kg	Overload	Hiccup mode. Recovers automatically after fault condition is	
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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 Saftey & EMC Regulations 12V Safet Standards CE EN61347-1; EN61347-2-13 Withstand Voltage IN/OUT: 3.75kVAC; IN/GND: 1.6kVAC; OUT/GND: 1.6kVAC; 60s,< 10mA	Working Environment	12V	24V
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 Saftey & EMC Regulations 12V Safet Standards CE EN61347-1; EN61347-2-13 Withstand Voltage IN/OUT: 3.75kVAC; IN/GND: 1.6kVAC; OUT/GND: 1.6kVAC; 60s,< 10mA	Working Temperature	-40°C ÷ 60°C (Refer to Derating Curve)	
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Saftey & 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	Degree Of Protection	IP67	
Safet Standards CE EN61347-1; EN61347-2-13 Withstand Voltage IN/OUT: 3.75kVAC; IN/GND: 1.6kVAC; OUT/GND: 1.6kVAC; 60s,< 10mA	Vibration	10 to 500Hz sweep at 1G for 1 hour for each X, Y, Z axes	
Withstand Voltage IN/OUT: 3.75kVAC; IN/GND: 1.6kVAC; OUT/GND: 1.6kVAC; 60s,< 10mA	Saftey & EMC Regulations	12V	24V
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)	Safet Standards	CE EN61347-1; EN61347-2-13	
EMC Standards CE EN55015; IEC61000-3-2; IEC61000-3-3; IEC61547 Ground Resistance < 0.1Ω (60S/25A)	Withstand Voltage	IN/OUT: 3.75kVAC; IN/GND: 1.6kVAC; OUT/GND: 1.6kVAC; 60s,< 10mA	
Ground Resistance < 0.1Ω (60S/25A)	Isolation Resistance	IN/OUT, IN/GND, OUT/GND > 100MΩ (500VDC/60s)	
Other 12V 24V Input Wire CCC+VDE 3 x 1.0mm2, length = 300 ± 10mm Output Wire CCC+VDE 2 x 1.0mm2, length = 300 ± 10mm Dimensions 190 * 61.5 * 36.5 mm Weight and Packing 0.56kg	EMC Standards	CE EN55015; IEC61000-3-2; IEC61000-3-3; IEC61547	
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Output Wire CCC+VDE 2 x 1.0mm2, length = 300 ± 10mm Dimensions 190 * 61.5 * 36.5 mm Weight and Packing 0.56kg	Other	12V	24V
Dimensions 190 * 61.5 * 36.5 mm Weight and Packing 0.56kg	Input Wire	CCC+VDE 3 x 1.0mm2, length = 30	00 ± 10mm
Weight and Packing 0.56kg	Output Wire	CCC+VDE 2 x 1.0mm2, length = 300 ± 10mm	
	Dimensions	190 * 61.5 * 36.5 mm	
Product Code IN-150-12-IP IN-150-24-IP	Weight and Packing	0.56kg	
	Product Code	IN-150-12-IP	IN-150-24-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, usie 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, extrastrength 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.

