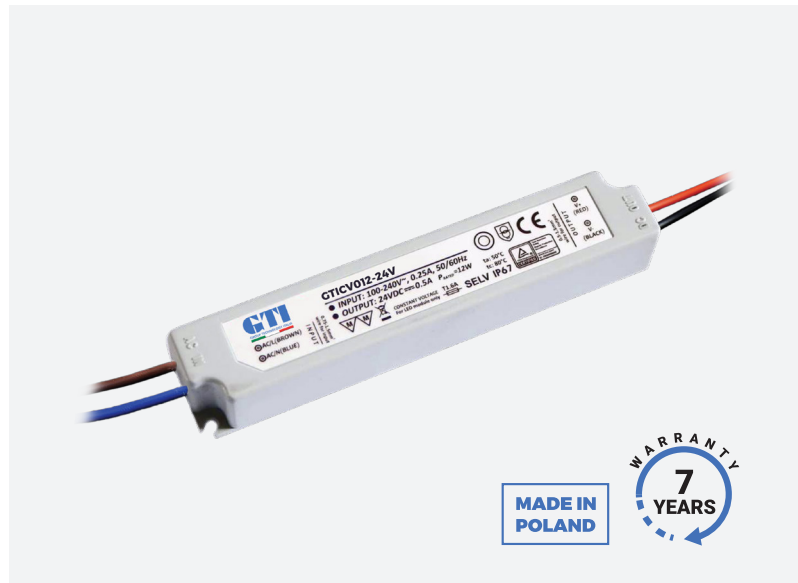


GTICV100012-24V

12W CONSTANT VOLTAGE LED POWER SUPPLY

FEATURES:

- Constant voltage design
- Universal AC input range
- Protections: Overload / Over voltage / Short circuit / Over Temperature
- Cooling by free air convection
- Isolation class II
- TUV certificate
- IP67 Protection level [5]



SPECIFICATIONS

tc: 80°C ta: 50°C **SELV** **IP67**

OUTPUT	
Rated Voltage	24V
Rated Current	0.5A
Current Range	0 ÷ 0.5A
Rated Power	12W
Line Regulation	± 1%
Load Regulation	± 2%
Tolerance [3]	± 5%
Ripple & Noise (max.) [2]	120mV _{p-p}
Setup, Rise Time [4]	500ms, 20ms / 230VAC at full load
Hold up Time (typ.)	20ms / 230VAC at full load
INPUT	
Voltage Range	90 ÷ 264VAC; 127 ÷ 370VDC
Frequency Range	47 ÷ 63Hz
Efficiency (typ.)	79%
AC Current (typ.)	0.29A / 115VAC, 0.14A / 230VAC
Inrush Current (typ.)	6A / 230VAC; T _{WIDTH} (50% peak) = 230μs
Max. No. Of PSU on Circuit Breaker	<div>B10</div> <div>B16</div> <div>C10</div> <div>B10</div> <div>B16</div> <div>C10</div>
	<div>42</div> <div>68</div> <div>56</div> <div>90</div> <div>64</div> <div>100</div>
Leakage Current (max.)	0.25mA / 240VAC

WORKING ENVIRONMENT

Working Temperature	-30°C ÷ 70°C (refer to Derating Curve), ta: 50°C; tc: 80°C
Working Humidity	20 ÷ 90% RH non-condensing
Storage Temperature and Humidity	-30°C ÷ 80°C, 10 ÷ 95% RH non-condensing

SAFETY & EMC REGULATIONS

Safety Standards	Compliance to TUV EN 61347-1, TUV EN 61347-2-13, IP67
Withstand Voltage	IN/OUT: 3kVAC
Isolation Resistance	IN/OUT: 100MΩ/500VDC/25°C/70%
EMC Emission	Compliance to EN55015
EMC Immunity	Compliance to EN61547
Harmonic Current	Compliance to EN61000-3-3; EN61000-3-2

OTHERS

Lifetime	50.000 hours at 230VAC input, ambient temperature 25°C, full load
Dimensions	130 x 25 x 21.5mm (L x W x H)
Weight and Packing	130g; 100pcs/ctn; ctn weight and dimensions: 13.5kg; 34.5 x 29 x 23cm

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μF i 47μF parallel capacitor.
3. Tolerance includes set up tolerance, line regulation and load regulation.
4. Setup and rise time is measured from 0 to 90% rated output voltage.
5. Suitable for indoor or outdoor use. Please avoid direct exposure to sunlight and immersion in water for over 30 minutes.
6. Power supply is considered as component not indented to apply by end-user. Power supply meets safety and EMC standards however the final equipment with power supply must be re-quality to comply with EMC Directives.

MECHANICAL SPECIFICATIONS

INPUT

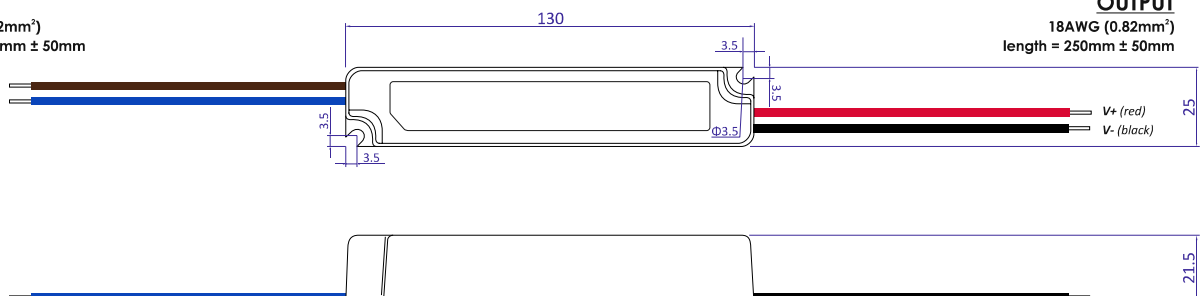
18AWG (0.82mm²)
length = 250mm ± 50mm

AC/L(brown)
AC/N(blue)

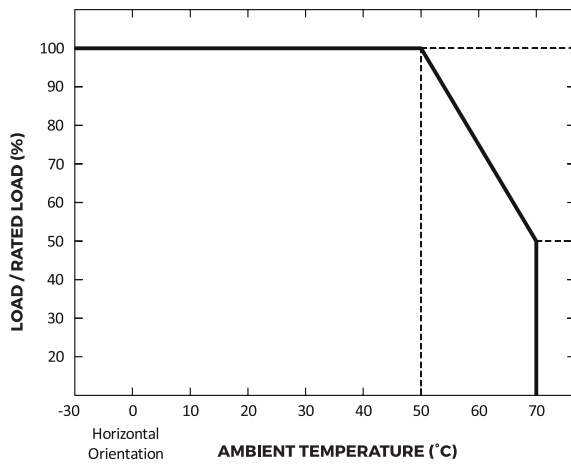
OUTPUT

18AWG (0.82mm²)
length = 250mm ± 50mm

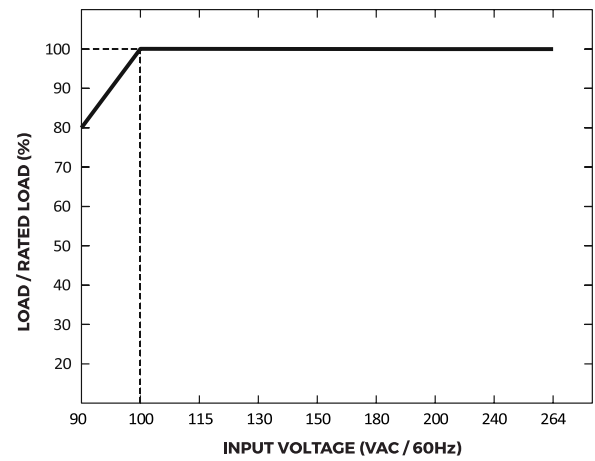
V+ (red)
V- (black)



DERATING CURVE



STATIC CHARACTERISTICS



LIFETIME vs. AMBIENT TEMPERATURE CURVE

