

# GTMC-100-D series

100W LED Triac Dimmable Constant Voltage Power Supply



## ■ Features:

- Constant voltage design
- European AC input range
- Protections: Overload / Over voltage / Short circuit
- Cooling by free air convection
- Isolation class I
- Fully encapsulated with IP67 level
- Suitable to work with AC triac dimmers

CONSTANT VOLTAGE SELV IP67        

## © ELECTRICAL SPECIFICATION

MODEL	GTMC-100-24-D
<b>OUTPUT</b>	
Rated Voltage	24V ± 5%
Rated Current	4.2A
Current Range	1.4 ÷ 4.2A
Rated Power	100W
Frequency Range	90 ÷ 120KHz / full load
Line Regulation	± 2%
Load Regulation	± 2%
Tolerance [3]	± 2%
Ripple & Noise (max.) [2]	300mV <sub>p-p</sub>
Setup [4]	≤ 500ms / full load
<b>INPUT</b>	
Voltage Range	220 ÷ 240VAC
Frequency Range	50 ÷ 60Hz
AC Current	0.60A / full load
Rated Power	115W
Power Factor	≥ 0.95 / full load
THD	≤ 15% / full load
Efficiency	≥ 90% / full load
Inrush Current (max.)	45A / 500µs (Cold start)
<b>DIMMING</b>	
Dimming Range	1 – 100% of rated output current
Suitable dimmers	Triac dimmers (leading or trailing edge) compatible with capacitive or inductive load

# GTMC-100-D series

100W LED Triac Dimmable Constant Voltage Power Supply



## PROTECTIONS

<b>Overload</b>	Range: > 150% Type: hiccup, auto-recovery.
<b>Short Circuit</b>	Type: hiccup, auto-recovery.
<b>Over Voltage</b>	Type: hiccup, auto-recovery.

## WORKING ENVIRONMENT

<b>Working Temperature</b>	Ta: 20°C ÷ 50°C; tc: 80°C
<b>Working Humidity</b>	5 ÷ 85% RH non-condensing
<b>Storage Temperature and Humidity</b>	-20°C ÷ 70°C, 5 ÷ 85% RH non-condensing

## SAFETY and EMC REGULATIONS

<b>Safety Standards</b>	Compliance to EN 61347-1, EN 61347-2-13, EN 60598-1
<b>Withstand Voltage</b>	IN/OUT: 3.75kVAC
<b>Isolation Resistance</b>	IN/OUT: 100MΩ/500VDC/25°C/70%
<b>EMC Emission</b>	Compliance to EN 55015, EN 62493
<b>EMC Immunity</b>	Compliance to EN 61547
<b>Harmonic Current</b>	Compliance to EN 61000-3-3; EN 61000-3-2

## OTHERS

<b>Lifetime (typ.)</b>	30 000 hours
<b>Dimensions</b>	191 x 70 x 40mm (L x W x H)
<b>Primary cable</b>	UL3x18AWG (300mm)
<b>Secondary cable</b>	UL2x18AWG (300mm)

**EAN Code**



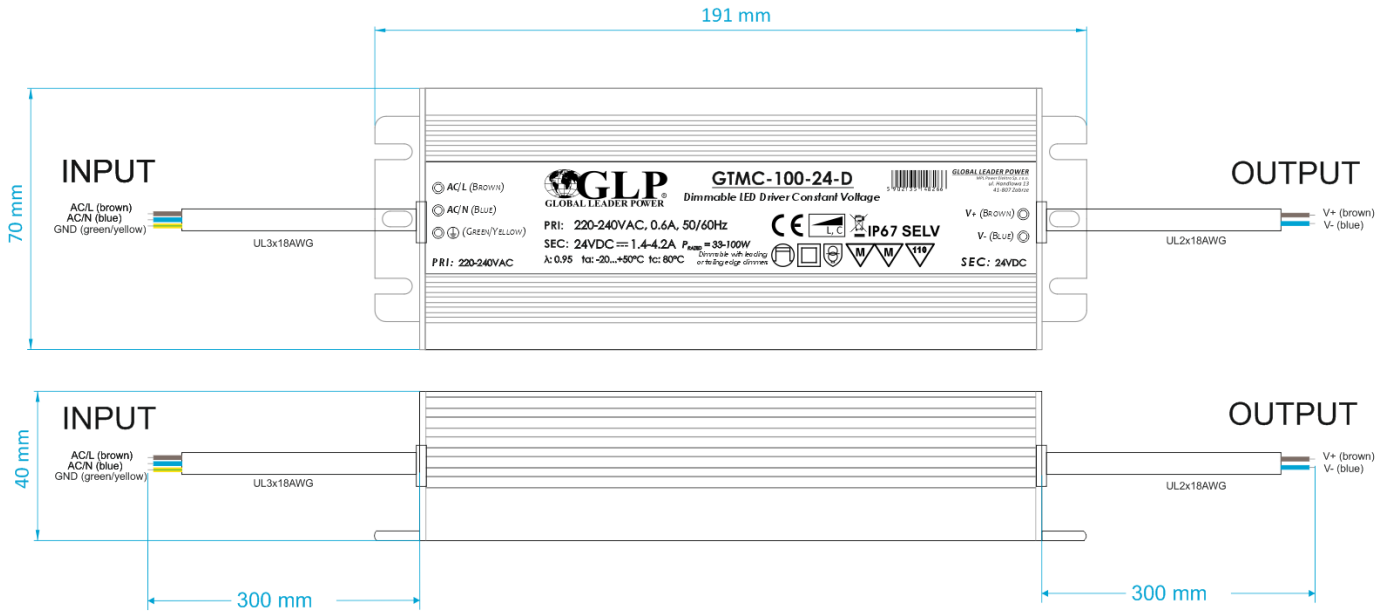
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μF i 47μF parallel capacitor.
3. Tolerance includes set up tolerance, line regulation and load regulation.
4. Setup time is measured from 0 to 90% rated output voltage.
5. 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.

# GTMC-100-D series

100W LED Triac Dimmable Constant Voltage Power Supply



## MECHANICAL SPECIFICATION



## SUGGESTED CONNECTION DIAGRAM WITH DIMMER

