GTPC-50-D series

50W LED Triac Dimmable Constant Voltage Power Supply

GLOBAL LEADER POWER



■ Features:

- Constant voltage design
- European AC input range
- Protections: Overload / Over voltage / Short circuit
- Cooling by free air convection
- Isolation class II
- Suitable to work with AC triac dimmers
- CB certificate

CONSTANT VOLTAGE SELV

◎ELECTRICAL SPECIFICATION

MODEL	GTPC-50-12-D	GTPC-50-24-D
OUTPUT		
Rated Voltage	12V	24V
Rated Current	4.16A	2.08A
Current Range	0 ÷ 4.16A	0 ÷ 2.08A
Rated Power	50W	
Dimming range	1 – 100%	
Line Regulation	± 3%	
Load Regulation	± 3%	
Tolerance [3]	± 3%	
Ripple & Noise (max.) [2]	2000mV$_{P-P}$	
Setup [4]	500ms / 230VAC at full load	

INPUT						
Voltage Range	220 ÷ 240VAC					
Frequency Range	47 ÷ 63Hz					
Efiiciency (typ.)	84%			86%		
AC Current (typ.)	0.31A / 230VAC					
Inrush Current (typ.)	5A / 230VAC; 500µs					
Max. No. Of PSU on Circuit Breaker	B10	B16	C10	C16	D10	D16
	11	17	16	26	32	51

DIMMING	
Dimming Range	1 – 100% of rated output current
Suitable dimmers	Triac dimmers (leading or trailing edge) compatible with capacitive or inductive load

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PROTECTIONS

Overload	Range: Constant power
	Type: auto-recovery.
Short Circuit	Type: auto-recovery.
Over Voltage	Type: shut off, auto-recovery.
Over Temperature	Type: shut off, auto-recovery.

WORKING ENVIRONMENT

Working Temperature	-20°C ÷ 50°C, ta: 40°C; tc: 70°C
Working Humidity	20 ÷ 90% RH non-condensing
Storage Temperature and Humidity	-20°C ÷ 70°C, 10 ÷ 95% RH non-condensing

SAFETY and EMC REGULATIONS

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

OTHERS

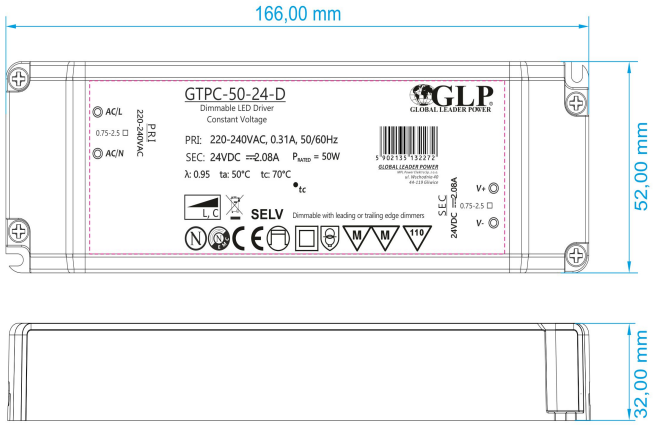
Lifetime (typ.)	30 000 hours
Dimensions	166 x 52 x 32mm (L x W x H)
Weight and Packing	240g; 50pcs./ctn; ctn weight and dimensions: 12kg; 39.5 x 33.5 x 20cm
EAN Code	5 90 21 35 13 22 65 5 90 21 35 13 22 72

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.

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⊙MECHANICAL SPECIFICATION



⊙SUGGESTED CONNECTION DIAGRAM WITH DIMMER

