

GTMC-200-D series

200W LED Triac Dimmable Constant Voltage Power Supply



■ Features:

- Constant voltage PWM style output
 - 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-200-24-D
OUTPUT	
Rated Voltage	24V ± 5%
Rated Current	8.3A
Current Range	2.7 ÷ 8.3A
Rated Power	200W
Frequency Range	90 ÷ 120KHz / full load
PWM Frequency	300kHz
Line Regulation	± 2%
Load Regulation	± 2%
Tolerance [3]	± 2%
Ripple & Noise (max.) [2]	300mV _{p-p}
Setup [4]	≤ 500ms
INPUT	
Voltage Range	220 ÷ 240VAC
Frequency Range	50 ÷ 60Hz
AC Current	1.3A / full load
Rated Power	230W
Power Factor	≥ 0.95 / full load
THD	≤ 15% / full load
Efficiency	≥ 92% / full load
Inrush Current (max.)	65A / 500µs (Cold start)
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: > 150% Type: hiccup, auto-recovery.
Short Circuit	Type: hiccup, auto-recovery.
Over Voltage	Type: hiccup, auto-recovery.

WORKING ENVIRONMENT

Working Temperature	Ta: -20°C ÷ 50°C; tc: 80°C
Working Humidity	5 ÷ 85% RH non-condensing
Storage Temperature and Humidity	-20°C ÷ 70°C, 5 ÷ 85% 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	249 x 72 x 40mm (L x W x H)
Primary cable	H05RN-F VDE3x1.0mm ² (300mm)
Secondary cable	H05RN-F VDE2x1.0mm ² (300mm)

EAN Code



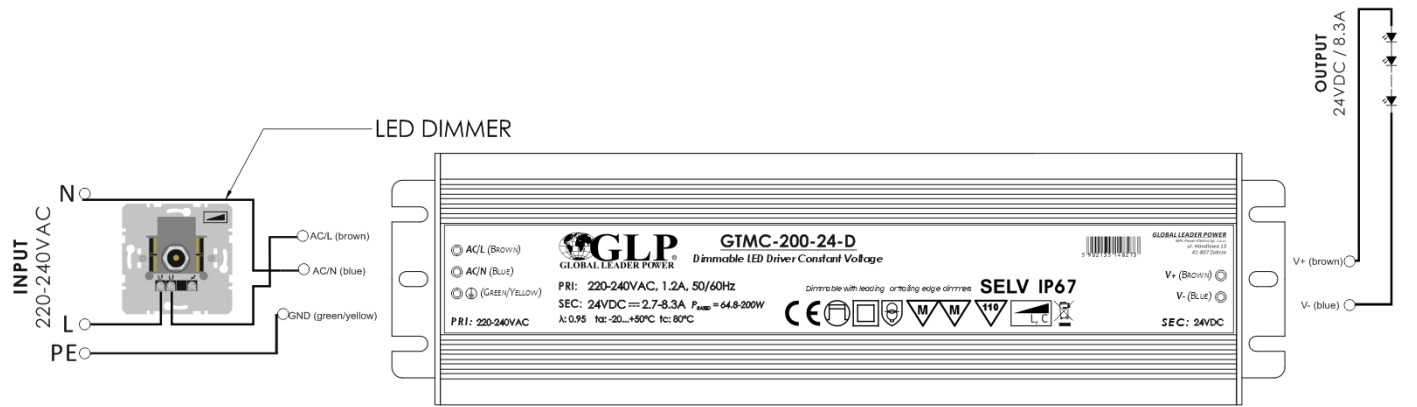
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μF i 47μF parallel capacitor.
3. Tolerance includes set up tolerance, line regulation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

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MECHANICAL SPECIFICATION



SUGGESTED CONNECTION DIAGRAM WITH DIMMER

