GPV-75 series

75W Single Output Switching Power Supply

■Features:

- Constant voltage design
- Universal AC input / Full range
- Protections: Short circuit / Overcurrent / Over voltage
- Cooling by free air convection
- 100% full load burn-in test
- Isolation class II
- Fully encapsulated with IP67 level

IP67 SELV

ELECTRICAL SPECIFICATION

MODEL	GPV-75-12	GPV-75-24
OUTPUT		
DC VOLTAGE	12V	24V
RATED CURRENT	6A	3A
CURRENT RANGE	0 ÷ 6A	0 ÷ 3A
RATED POWER	72W	
LINE REGULATION	± 1%	
LOAD REGULATION	± 2%	
VOLTAGE TOLERANCE [3]	± 5%	
RIPPLE & NOISE (max.) [2]	$300mV_{P-P}$	$300mV_{P-P}$
SETUP, RISE TIME [4]	500ms, 250ms at full load	
HOLD UP TIME (typ.)	24ms / 115VAC, 50ms / 230VAC at full load	
INPUT		
VOLTAGE RANGE	90 ÷ 264VAC	
FREQUENCY RANGE	47 ÷ 63Hz	
EFFICIENCY (typ.)	84%	86%
AC CURRENT (typ.)	1.6A/115VAC, 0.8A / 230VAC	
INRUSH CURRENT (typ.)	70A / 230VAC, 35A / 115VAC	
LEAKAGE CURRENT(max.)	0.25mA / 240VAC	
PROTECTIONS		
OVERCURRENT	Range: 150 ÷ 180%	
	Type: hiccup mode, auto-recovery.	
SHORT CIRCUIT	Type: hiccup mode, auto-recovery.	
OVER VOLTAGE	13.5 ÷ 16.5V	27 ÷ 33V
	Type: hiccup mode, auto-recovery.	

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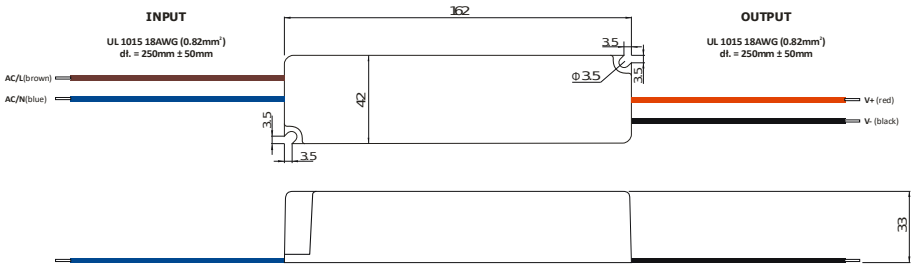
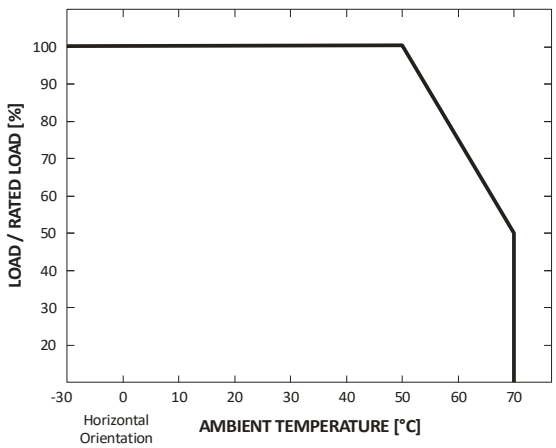
ENVIRONMENT	
WORKING TEMPERATURE	-30°C ÷ 70°C (Refer to Derating Curve)
WORKING HUMIDITY	20 ÷ 90% RH non-condensing
STORAGE TEMPERATURE AND HUMIDITY	-40°C ÷ 80°C, 10 ÷ 95% RH non-condensing
TEMPERATURE COEFFICIENT	± 0.03% / °C (0°C ÷ 50°C)
VIBRATION	10 ÷ 500Hz, 2G, 10min / cycle, period for 60min. each along X, Y, Z axes
SAFETY & EMC REGULATIONS	
SAFETY STANDARDS	Compliance to EN61347-1, EN61347-2-13, IP67
WITHSTAND VOLTAGE	I-P/O-P: 3kVAC
ISOLATION RESISTANCE	I-P/O-P; O-P/FG; I-P/FG: 100MΩ/500VDC/25°C/70%
EMC EMISSION	Compliance to EN55015
EMC IMMUNITY	Compliande to EN61547; EN55024; EN61000-4-2, -3, -4, -5, -6, -8, -11
HARMONIC CURRENT	Compliance to EN61000-3-3; EN61000-3-2
OTHERS	
DIMENSIONS	162 x 42 x 33mm
WEIGHT AND PACKING	0.38kg; 50pcs./box; box weight and dimensions: 20kg; 38.5 x 27.5 x 19.5cm

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 incudes set up tolerance, line regulation and load regulation.
4. Setup and rise time is measured from 0 to 90% rated output voltage.
5. Power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment must be re-qualify to comply with EMC Directives.

MECHANICAL SPECIFICATION



DERATING CURVE



MPL POWER ELEKTRO

MPL POWER ELEKTRO Sp. z o.o.
ul. Wschodnia 40
44-119 Gliwice

CE

EU DECLARATION OF CONFORMITY

For the following equipment:

Part No.:	**GPV-75-Y (Y = 12, 24)**
Batch No.:	**GLP18xxxxxxxxxxxxx**

Is herewith confirmed to comply with the requirements set out in the Council Directive, the following standards were applied:

ROHS Directive 2011/65/EU

Low Voltage Directive 2014/35/UE:

Standard	Description
EN 61347-1:2015	Lamp controlgear. General and safety requirements
EN 61347-2-13:2014 + A1:2017	Lamp controlgear - Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules

Electromagnetic Compatibiity Directive 2014/30/UE:

Standard	Description
EN55015:2013 + A1:2015	Conducted emission / Radiated emission
EN61000-3-2:2014	Harmonic current.
EN61000-3-3:2013	Voltage flicker.
EN61547:2009	Electro-magnetic susceptibility.

Power supply is considered as component of final equipment 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 and LVD Directives.

Gliwice, 30.03.2018r.

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NIP 631-24-57-646 REGON 240105606
Company stamp

KIEROWNIK
Działu Technicznego
Łukasz Jaromin
Person signature and stamp