GPV-35 series

35W Single Output Switching Power Supply

■ **Features:**

- Constant voltage design
- Universal AC input / Full range
- Protections: Short circuit / Over current / Over voltage
- Cooling by free air convection
- Isolation class II
- Class 2 power unit
- Fully encapsulated with IP67 level [5]

IP67 SELV

ELECTRICAL SPECIFICATION

MODEL	GPV-35-5	GPV-35-12	GPV-35-15	GPV-35-24	GPV-35-36
OUTPUT					
RATED VOLTAGE	5V	12V	15V	24V	36V
RATED CURRENT	5A	3A	2.4A	1.5A	1A
CURRENT RANGE	0 ÷ 5A	0 ÷ 3A	0 ÷ 2.4A	0 ÷ 1.5A	0 ÷ 1.0A
RATED POWER	25W	36W	36W	36W	36W
LINE REGULATION	± 1%				
LOAD REGULATION	± 2%				
TOLERANCE [3]	± 3%				
RIPPLE & NOISE (max.) [2]	650mV$_{P-P}$	100mV$_{P-P}$	150mV$_{P-P}$	200mV$_{P-P}$	300mV$_{P-P}$
SETUP, RISE TIME [4]	3000ms, 250ms / 115VAC; 5000ms, 250ms / 230VAC at full load				
HOLD UP TIME	20ms / 230VAC, 24ms / 115VAC at full load				
INPUT					
VOLTAGE RANGE	90 ÷ 264VAC; 127 ÷ 370VDC				
FREQUENCY RANGE	47 ÷ 63Hz				
EFFICIENCY (typ.)	75%	82%	82%	84%	85%
AC CURRENT (typ.)	0.6A/115VAC, 0.3A / 230VAC	0.75A/115VAC, 0.35A / 230VAC			
INRUSH CURRENT (typ.)	70A / 230VAC, 35A / 115VAC				
LEAKAGE CURRENT (max.)	0.25mA / 240VAC				
PROTECTIONS					
OVER CURRENT	Range: 105 ÷ 150% rated current				
	Type: hiccup mode, auto-recovery.				
SHORT CIRCUIT	Type: hiccup mode, auto-recovery.				
OVER VOLTAGE	5.5 ÷ 8V	13.1 ÷ 19.2V	16.5 ÷ 24V	26.4 ÷ 38.4V	39.6 ÷ 57.4V
	Type: shut-off, auto-recovery.		Type: hiccup mode, auto-recovery.		

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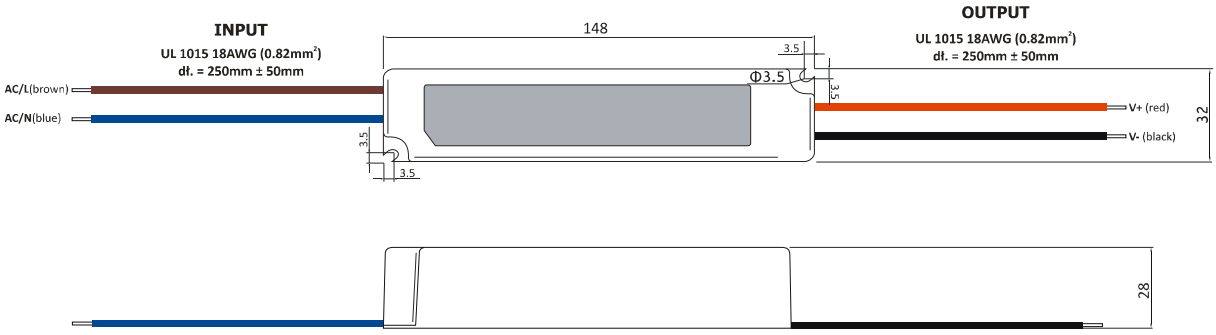
GLOBAL LEADER POWER

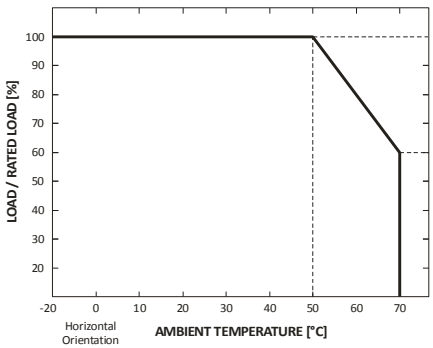
WORKING ENVIRONMENT	
WORKING TEMPERATURE	-20°C ÷ 70°C (Refer to Derating Curve)
WORKING HUMIDITY	20 ÷ 90% RH non-condensing
STORAGE TEMPERATURE AND HUMIDITY	-40°C ÷ 80°C, 10 ÷ 95% RH non-condensing
TEMPERATURE COEFFICIENT	± 0.03% / °C (0°C ÷ 50°C)
VIBRATION	10 ÷ 500Hz, 2G, 10min / cycle, period for 60min. each along X, Y, Z axes
SAFETY AND 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: 100MΩ/500VDC/25°C/70%
EMC EMISSION	Compliance to EN55015
EMC IMMUNITY	Compliance to EN61547; EN55024; EN61000-4-2, -3, -4, -5, -6, -8, -11
HARMONIC CURRENT	Compliance to EN61000-3-3; EN61000-3-2
OTHERS	
DIMENSIONS	148 x 32 x 28mm (L x W x H)
WEIGHT AND PACKING	0.2kg; 80pcs./ctn; ctn weight and dimensions: 17kg; 34.5 x 24 x 26cm

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 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.

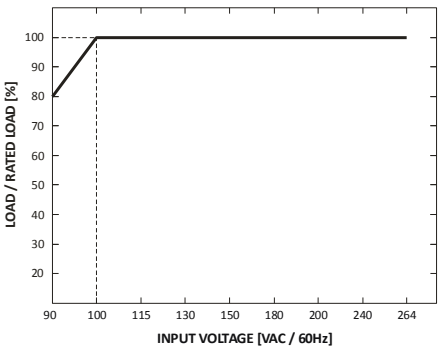
MECHANICAL SPECIFICATION



DERATING CURVE



STATIC CHARACTERISTICS



MPL POWER ELEKTRO

MPL POWER ELEKTRO Sp. z o.o.
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44-119 Gliwice

CE

EU DECLARATION OF CONFORMITY

For the following equipment:

Part No.:	**GPV-35-Y (Y = 5, 12, 15, 24, 36)**
Batch No.:	**GLP18xxxxxxxxxxxxxx**

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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Company stamp

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Działu Technicznego
Łukasz Jaromin
Person signature and stamp