

GPV-18 series

18W Constant Voltage Switching Power Supply



■ Features:

- Constant voltage design
- European AC input range
- Protections: Short circuit / Over current
- Cooling by free air convection
- Isolation class II
- Fully encapsulated with IP67 level [5]
- TUV certificate



tc: 80°C

ta: 50°C CONSTANT VOLTAGE SELV



IP67

ELECTRICAL SPECIFICATION

MODEL	GPV-18-12			GPV-18-24		
OUTPUT						
RATED VOLTAGE	12V			24V		
RATED CURRENT	1.5A			0.75A		
CURRENT RANGE	0 ÷ 1.5A			0 ÷ 0.75A		
RATED POWER	18W			18W		
LINE REGULATION	± 1%					
LOAD REGULATION	± 2%					
TOLERANCE [3]	± 3%					
RIPPLE & NOISE (max.) [2]	200mV _{p-p}			400mV _{p-p}		
SETUP, RISE TIME [4]	500ms, 25ms / 230VAC at full load					
HOLD UP TIME (typ.)	30ms / 230VAC at full load					
INPUT						
VOLTAGE RANGE	180 ÷ 264VAC; 253 ÷ 370VDC					
FREQUENCY RANGE	47 ÷ 63Hz					
EFFICIENCY (typ.)	80%			82%		
AC CURRENT (typ.)	0.2A / 230VAC					
INRUSH CURRENT (typ.)	35A / 230VAC; T _{WIDTH} = 180μs					
Max. No. of PSU on Circuit Breaker	B10	B16	C10	C16	D10	D16
	14	20	18	28	20	32
LEAKAGE CURRENT (max.)	0.25mA / 240VAC					

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PROTECTIONS

OVER CURRENT	Range: 110% ÷ 150% rated current Type: hiccup mode, auto-recovery.
SHORT CIRCUIT	Type: hiccup mode, auto-recovery.

WORKING ENVIRONMENT

WORKING TEMPERATURE	-30°C ÷ 70°C (Refer to Derating Curve), ta: 50°C; tc: 80°C
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 TUV 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

Lifetime	70 000 hours at 230VAC input, ambient temperature 25°C, full load
DIMENSIONS	130 x 25 x 21.5mm (L x W x H)
WEIGHT AND PACKING	0.15kg; 100pcs./ctn; ctn weight and dimensions: 13.5kg; 34.5 x 29 x 23.5cm

EAN Code



5 902135 147405



5 902135 147412

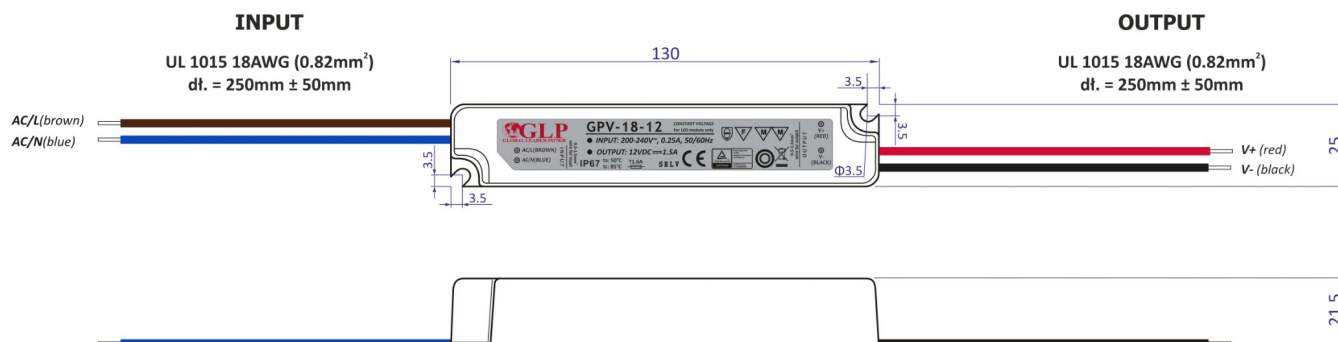
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μF i 47μF parallel capacitor.
3. Tolerance includes set up tolerance, line regulation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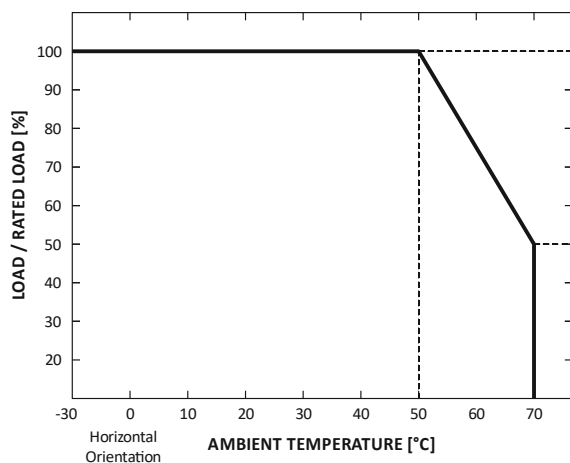
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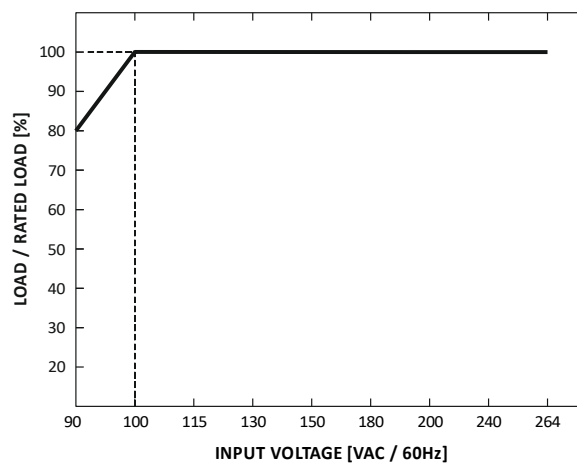
MECHANICAL SPECIFICATION



DERATING CURVE



STATIC CHARACTERISTIC



LIFETIME vs. AMBIENT TEMPERATURE CURVE

