

GPC-60 series

60W Single Output Switching Power Supply



■ Features:

- Constant current design
- Universal AC input / Full range
- Protections: Short circuit / Overcurrent
- Cooling by free air convection
- 100% full load burn-in test
- Isolation class II
- UL1310 Class 2 power unit, pass LPS
- Fully encapsulated with IP67 level

□ IP67 CE LPS

ELECTRICAL SPECIFICATION

MODEL	GPC-60-1050		GPC-60-1400		GPC-60-1750	
OUTPUT						
NO OUTPUT DC VOLTAGE	60V		42V		36V	
RATED CURRENT	1050mA		1400mA		1750mA	
VOLTAGE RANGE	12 ÷ 60V		9 ÷ 42V		9 ÷ 36V	
RATED POWER	63W		58.8W		63W	
CURRENT ACCURACY	± 3%					
LINE REGULATION	± 1%					
VOLTAGE TOLERANCE [3]	± 3%					
RIPPLE & NOISE (max.) [2]	300mV _{p-p}		200mV _{p-p}		200mV _{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.)	85%		85%		85%	
AC CURRENT (typ.)	1.4A/115VAC, 0.7A / 230VAC					
INRUSH CURRENT (typ.)	70A / 230VAC, 35A / 115VAC					
LEAKAGE CURRENT(max.)	0.25mA / 240VAC					
PROTECTIONS						
SHORT CIRCUIT	Type: hiccup mode, auto-recovery.					
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					

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SAFETY & EMC REGULATIONS

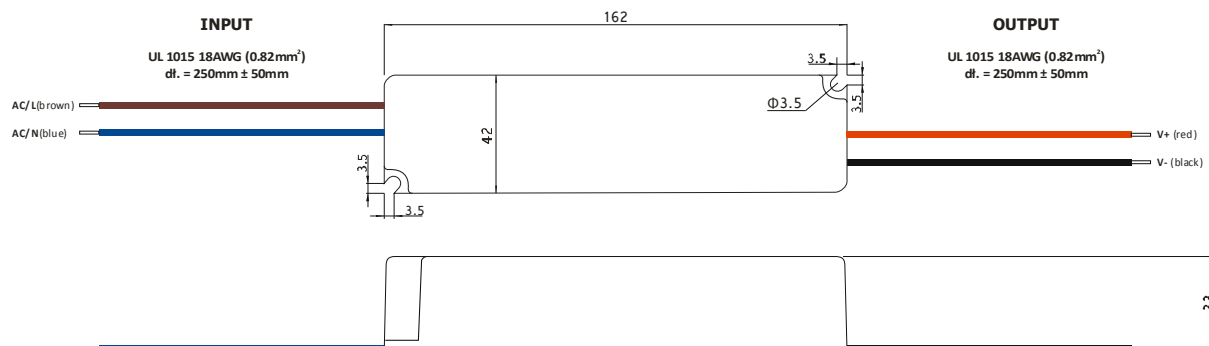
SAFETY STANDARDS	Compliance to EN61347-1, EN61347-2-13, IP67
WITHSTAND VOLTAGE	I-P/O-P: 3kVAC
ISOLATION RESISTANCE	I-P/O-P; O-P/FG; I-P/FG: 100M Ω /500VDC/25°C/70%
EMC EMISSION	Compliance to EN55015
EMC IMMUNITY	Compliance to EN61547; EN55024; EN61000-4-2, -3, -4, -5, -6, -8, -11
HARMONIC CURRENT	Compliance to EN61000-3-3; EN61000-3-2

OTHERS

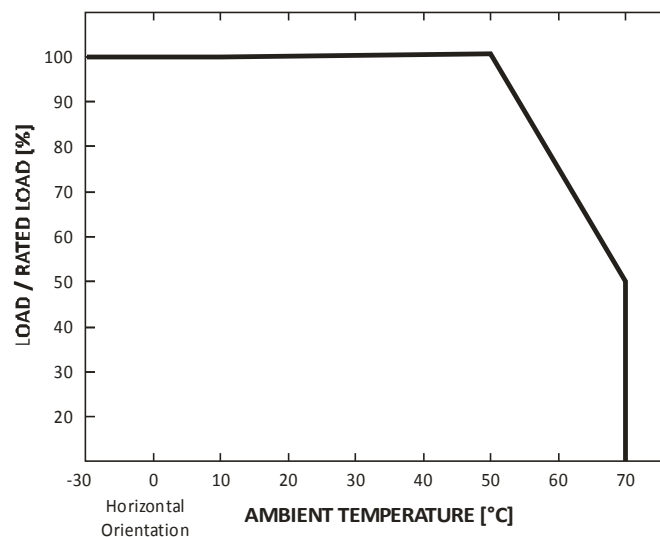
DIMENSIONS	162 x 42 x 33mm
WEIGHT AND PACKING	0.36kg; 50pcs./box; box weight and dimensions: 20kg; 38.5 x 27.5 x 19.5cm

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 0.1 μ F i 47 μ F 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. 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



EU DECLARATION OF CONFORMITY

For the following equipment:

Part No.:	GPC-60-X (X = 1050, 1400, 1750)
Batch No.:	GLP17xxxxxxxxxxxxxx

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 61347-1:2008 + A1:2011 + A2:2013	Lamp controlgear - General and safety requirements.
EN 61347-2-13:2014	Lamp controlgear - Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules

Electromagnetic Compatibility Directive 2014/30/UE:

Standard	Description
EN55015:2013	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 intended to apply by end-user. Power supply meets safety and EMC standards however the final equipment with power supply must be re-qualified to comply with EMC and LVD Directives.