

GPCP-60 series

60W Single Output Switching Power Supply with PFC Function



■ Features:

- Constant current design
- Built-in active PFC function
- Universal AC input / Full range
- Protections: Short circuit
- 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	GPCP-60-700	GPCP60-1050	GPCP-60-1250	GPCP-60-1400	GPCP-60-1750	GPCP-60-2100
OUTPUT						
NO OUTPUT DC VOLTAGE	80V	60V	47V	42V	36V	20V
RATED CURRENT	700mA	1050mA	1250mA	1400mA	1750mA	2100mA
VOLTAGE RANGE	40 ÷ 80V	30 ÷ 60V	24 ÷ 47V	20 ÷ 42V	18 ÷ 36V	16 ÷ 30V
RATED POWER	56W	63W	58.8W	58.8W	63W	63W
CURRENT ACCURACY	± 5%					
LINE REGULATION	± 1%					
VOLTAGE TOLERANCE [3]	± 3%					
RIPPLE & NOISE (max.) [2]	5V _{p-p}	5V _{p-p}	5V _{p-p}	5V _{p-p}	5V _{p-p}	5V _{p-p}
SETUP, RISE TIME [4]	2000ms, 250ms/230VAC; 3000ms, 250ms / 115VAC at full load					
HOLD UP TIME (typ.)	25ms / 115VAC, 50ms / 230VAC at full load					
INPUT						
VOLTAGE RANGE	90 ÷ 264VAC					
FREQUENCY RANGE	47 ÷ 63Hz					
EFFICIENCY (typ.)	88%	88%	87%	88%	87%	86%
AC CURRENT (typ.)	1.2A/115VAC, 0.6A / 230VAC					
POWER FACTOR	PF > 0.9 / 230VAC; PF > 0.95 > 115VAC					
INRUSH CURRENT (typ.)	70A / 230VAC, 35A / 115VAC					
LEAKAGE CURRENT(max.)	0.5mA / 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

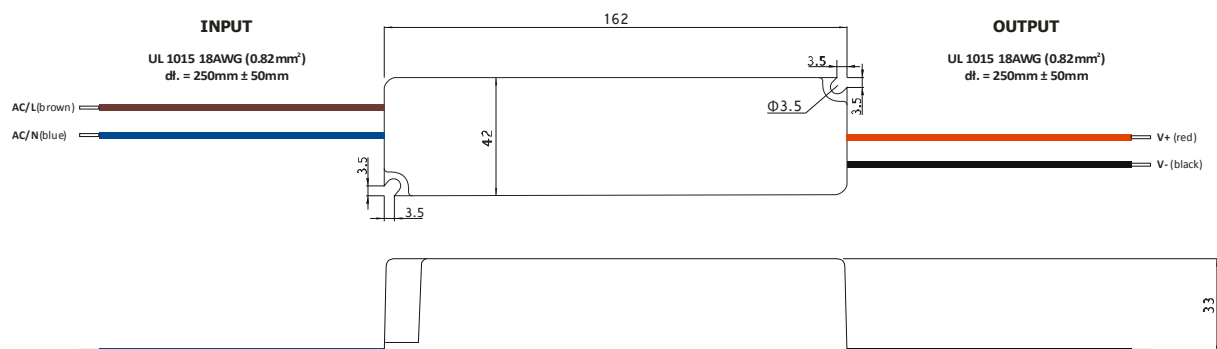
SAFETY STANDARDS	Compliance to EN61347-1, EN61347-2-13, IP67
WITHSTAND VOLTAGE	I-P/O-P: 3kVAC
ISOLATION RESISTANCE	I-P/O-P; O-P/FG; I-P/FG: 100M Ω /500VDC/25°C/70%
EMC EMISSION	Compliance to EN55015
EMC IMMUNITY	Compliance to EN61547; EN55024; EN61000-4-2, -3, -4, -5, -6, -8, -11
HARMONIC CURRENT	Compliance to EN61000-3-3; EN61000-3-2 class C (≥ 60% load)

OTHERS

DIMENSIONS	162 x 42 x 33mm
WEIGHT AND PACKING	0.39kg; 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-qualified to comply with EMC Directives.

MECHANICAL SPECIFICATION



DERATING CURVE

