

GPCP-35 series

35W 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
- Fully encapsulated with IP67 level

☐ IP67 CE LPS

ELECTRICAL SPECIFICATION

MODEL	GPCP-35-350	GPCP-35-700	GPCP-35-1050	GPCP-35-1400
OUTPUT				
NO OUTPUT DC VOLTAGE	80V	48V	32V	24V
RATED CURRENT	350mA	700mA	1050mA	1400mA
VOLTAGE RANGE	40 ÷ 80V	24 ÷ 48V	16 ÷ 32V	12 ÷ 24V
RATED POWER	28W	33.6W	33.6W	33.6W
CURRENT ACCURACY	± 5%			
LINE REGULATION	± 1%			
VOLTAGE TOLERANCE [3]	± 3%			
RIPPLE & NOISE (max.) [2]	4V _{p-p}	3.5V _{p-p}	3.5V _{p-p}	3.5V _{p-p}
SETUP, RISE TIME [4]	2000ms, 250ms/230VAC; 3000ms, 250ms / 115VAC at full load			
HOLD UP TIME (typ.)	30ms / 115VAC, 60ms / 230VAC at full load			
INPUT				
VOLTAGE RANGE	90 ÷ 264VAC			
FREQUENCY RANGE	47 ÷ 63Hz			
EFFICIENCY (typ.)	85%	84%	84%	84%
AC CURRENT (typ.)	0.6A/115VAC, 0.3A / 230VAC			
POWER FACTOR	PF > 0.9 / 230VAC; PF > 0.95 > 115VAC			
INRUSH CURRENT (typ.)	65A / 230VAC			
LEAKAGE CURRENT(max.)	1mA / 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

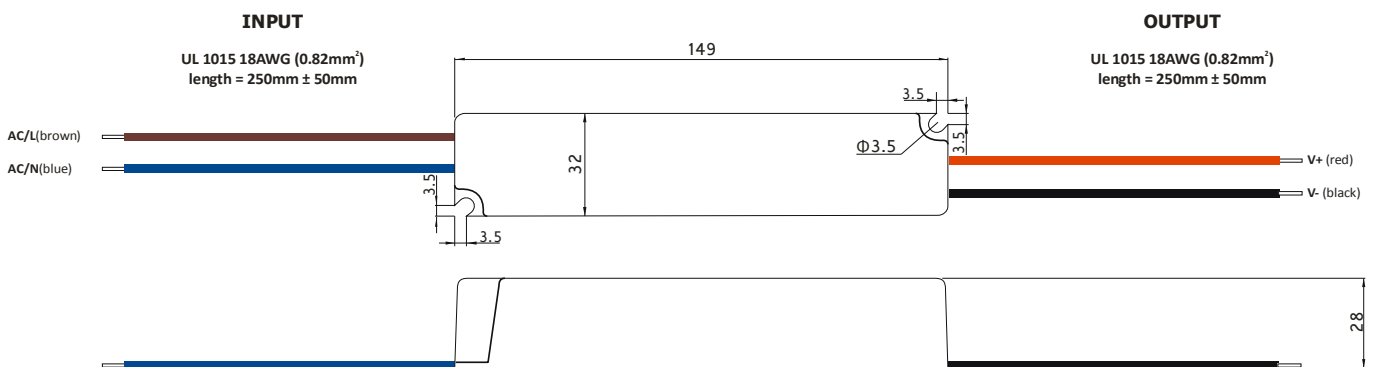
SAFETY STANDARDS	Compliance to EN61347-1, EN61347-2-13, IP67
WITHSTAND VOLTAGE	I-P/O-P: 3kVAC
ISOLATION RESISTANCE	I-P/O-P; O-P/FG; I-P/FG: 100MΩ/500VDC/25°C/70%
EMC EMISSION	Compliance to EN55015
EMC IMMUNITY	Compliance to EN61547; EN55024; EN61000-4-2, -3, -4, -5, -6, -8, -11
HARMONIC CURRENT	Compliance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

OTHERS

DIMENSIONS	149 x 32 x 28mm
WEIGHT AND PACKING	0.25kg; 80pcs./box; box weight and dimensions: 20kg; 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. 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

