

# GPC-35 series

35W Single Output Switching Power Supply



## ■ Features:

- Constant current design
- 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	GPC-35-350	GPC-35-700	GPC-35-1050	GPC-35-1400
<b>OUTPUT</b>				
NO OUTPUT DC VOLTAGE	80V	48V	30V	24V
RATED CURRENT	350mA	700mA	1050mA	1400mA
VOLTAGE RANGE	30 ÷ 80V	9 ÷ 48V	9 ÷ 30V	9 ÷ 24V
RATED POWER	28W	33.6W	31.5W	33.6W
CURRENT ACCURACY	± 3%			
LINE REGULATION	± 1%			
VOLTAGE TOLERANCE [3]	± 3%			
RIPPLE & NOISE (max.) [2]	300mV <sub>p-p</sub>	200mV <sub>p-p</sub>	200mV <sub>p-p</sub>	200mV <sub>p-p</sub>
SETUP, RISE TIME [4]	500ms, 250ms at full load			
HOLD UP TIME (typ.)	24ms / 115VAC, 50ms / 230VAC at full load			
<b>INPUT</b>				
VOLTAGE RANGE	90 ÷ 264VAC			
FREQUENCY RANGE	47 ÷ 63Hz			
EFFICIENCY (typ.)	86%	85%	84%	84%
AC CURRENT (typ.)	0.75A/115VAC, 0.35A / 230VAC			
INRUSH CURRENT (typ.)	70A / 230VAC			
LEAKAGE CURRENT(max.)	0.25mA / 240VAC			
<b>PROTECTIONS</b>				
SHORT CIRCUIT	Type: hiccup mode, auto-recovery.			
<b>ENVIRONMENT</b>				
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

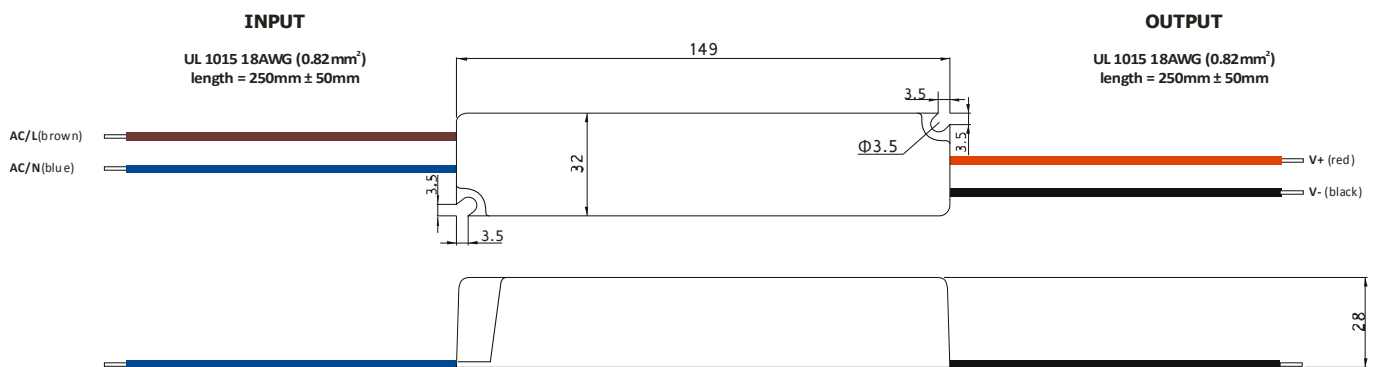
<b>SAFETY STANDARDS</b>	Compliance to EN61347-1, EN61347-2-13, IP67
<b>WITHSTAND VOLTAGE</b>	I-P/O-P: 3kVAC
<b>ISOLATION RESISTANCE</b>	I-P/O-P; O-P/FG; I-P/FG: 100M $\Omega$ /500VDC/25°C/70%
<b>EMC EMISSION</b>	Compliance to EN55015
<b>EMC IMMUNITY</b>	Compliance to EN61547; EN55024; EN61000-4-2, -3,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

## OTHERS

<b>DIMENSIONS</b>	149 x 32 x 28mm
<b>WEIGHT AND PACKING</b>	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 0.1 $\mu$ F i 47 $\mu$ 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

