

GPCP-20 series

20W 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
- UL1310 Class 2 power unit, pass LPS, Isolation Class II
- Fully encapsulated with IP67 level

□ IP67 CE LPS

ELECTRICAL SPECIFICATION

MODEL	GPCP-20-350		GPCP-20-700
OUTPUT			
NO OUTPUT DC VOLTAGE	48V		30V
RATED CURRENT	350mA		700mA
VOLTAGE RANGE	12 ÷ 48V		9÷ 30V
RATED POWER	16.8W		21W
CURRENT ACCURACY	± 5%		
LINE REGULATION	± 1%		
VOLTAGE TOLERANCE [3]	± 3%		
RIPPLE & NOISE (max.) [2]	200mV _{p-p}		200mV _{p-p}
SETUP, RISE TIME [4]	500ms, 250ms/230VAC; 500ms, 250ms / 115VAC at full load		
HOLD UP TIME (typ.)	20ms / 115VAC, 38ms / 230VAC at full load		
INPUT			
VOLTAGE RANGE	90 ÷ 264VAC		
FREQUENCY RANGE	47 ÷ 63Hz		
EFFICIENCY (typ.)	80%		80%
AC CURRENT (typ.)	0.4A/115VAC, 0.2A / 230VAC		
POWER FACTOR	PF > 0.85 / 230VAC		
INRUSH CURRENT (typ.)	70A / 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

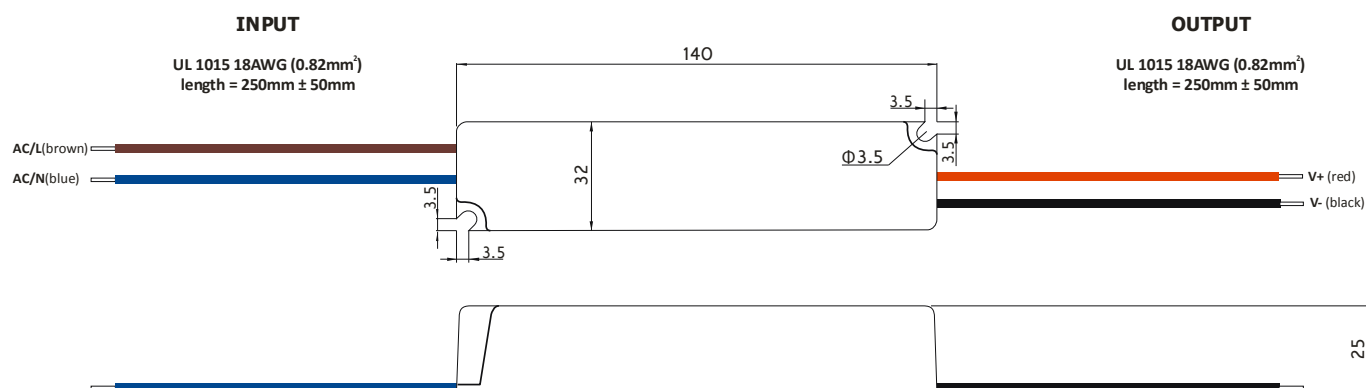
SAFETY STANDARDS	Compliance to EN61347-1, EN61347-2-13, IP67
WITHSTAND VOLTAGE	I-P/O-P: 3kVAC
ISOLATION RESISTANCE	I-P/O-P; O-P/FG; I-P/FG: 100M Ω /500VDC/25°C/70%
EMC EMISSION	Compliance to EN55015
EMC IMMUNITY	Compliance to EN61547; EN55024; EN61000-4-2, -3, -4, -5, -6, -8, -11
HARMONIC CURRENT	Compliance to EN61000-3-3; EN61000-3-2 class C (≥ 50% load)

OTHERS

DIMENSIONS	140 x 32 x 25mm (dł. x szer. x wys.)
WEIGHT AND PACKING	0.2kg; 100pcs./box; box weight and dimensions: 20kg; 34.5 x 29 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

