

## 2030\_Schaltnetzteil GPV-20-12 12V 20W 2A IP67



### ■ Features:

- Constant voltage design
- Universal AC input / Full range
- Protections: Short circuit / Over current / Over voltage / Over Temperature
- Cooling by free air convection
- Isolation class II
- Class 2 power unit
- Fully encapsulated with IP67 level [5]



(for 12V, 24V)



## ELECTRICAL SPECIFICATION

MODEL	GPV-20-5	GPV-20-12	GPV-20-15	GPV-20-24	GPV-20-36
<b>OUTPUT</b>					
<b>RATED VOLTAGE</b>	5V	12V	15V	24V	36V
<b>RATED CURRENT</b>	3A	2A	1.33A	1A	0.66A
<b>CURRENT RANGE</b>	0 ÷ 3A	0 ÷ 2A	0 ÷ 1.33A	0 ÷ 1A	0 ÷ 0.66A
<b>RATED POWER</b>	15W	24W	24W	24W	24W
<b>LINE REGULATION</b>	± 1%				
<b>LOAD REGULATION</b>	± 2%				
<b>TOLERANCE [3]</b>	± 3%				
<b>RIPPLE &amp; NOISE (max.) [2]</b>	400mV <sub>p-p</sub>	400mV <sub>p-p</sub>	400mV <sub>p-p</sub>	400mV <sub>p-p</sub>	500mV <sub>p-p</sub>
<b>SETUP, RISE TIME [4]</b>	1000ms, 250ms / 115VAC; 500ms, 250ms / 230VAC at full load				
<b>HOLD UP TIME</b>	24ms / 115VAC, 50ms / 230VAC at full load				
<b>INPUT</b>					
<b>VOLTAGE RANGE</b>	90 ÷ 264VAC; 127 ÷ 370VDC				
<b>FREQUENCY RANGE</b>	47 ÷ 63Hz				
<b>EFFICIENCY (typ.)</b>	70%	82%	82%	82%	84%
<b>AC CURRENT (typ.)</b>	0.4A/115VAC, 0.2A / 230VAC	0.6A/115VAC, 0.3A / 230VAC			
<b>INRUSH CURRENT (typ.)</b>	70A / 230VAC, 35A / 115VAC				
<b>LEAKAGE CURRENT (max.)</b>	0.25mA / 240VAC				
<b>PROTECTIONS</b>					
<b>OVER CURRENT</b>	Range: 150 ÷ 200% rated current				
	Type: hiccup mode, auto-recovery.				
<b>SHORT CIRCUIT</b>	Type: hiccup mode, auto-recovery.				
<b>OVER VOLTAGE</b>	8 ÷ 11.5V	13.5 ÷ 18.5V	20 ÷ 24V	27 ÷ 33V	45 ÷ 54V
	Type: hiccup mode, auto-recovery.				
<b>OVER TEMPERATURE</b>	140°C±10°C(detect on main control IC)				
	Type: shut down output voltage. Recovers automatically after temperature goes down.				

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### WORKING ENVIRONMENT

<b>WORKING TEMPERATURE</b>	-20°C ÷ 70°C (Refer to Derating Curve)
<b>WORKING HUMIDITY</b>	20 ÷ 90% RH non-condensing
<b>STORAGE TEMPERATURE AND HUMIDITY</b>	-40°C ÷ 80°C, 10 ÷ 95% RH non-condensing
<b>TEMPERATURE COEFFICIENT</b>	± 0.03% / °C (0°C ÷ 50°C)
<b>VIBRATION</b>	10 ÷ 500Hz, 2G, 10min / cycle, period for 60min. each along X, Y, Z axes

### SAFETY AND EMC REGULATIONS

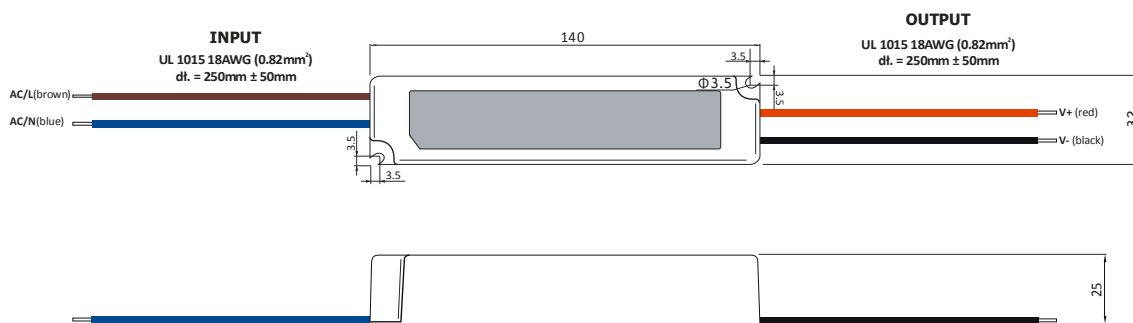
<b>SAFETY STANDARDS</b>	Compliance to EN61347-1, EN61347-2-13, IP67
<b>WITHSTAND VOLTAGE</b>	I-P/O-P: 3kVAC
<b>ISOLATION RESISTANCE</b>	I-P/O-P: 100MΩ/500VDC/25°C/70%
<b>EMC EMISSION</b>	Compliance to EN55015
<b>EMC IMMUNITY</b>	Compliance to EN61547; EN55024; EN61000-4-2, -3, -4, -5, -6, -8, -11
<b>HARMONIC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

### OTHERS

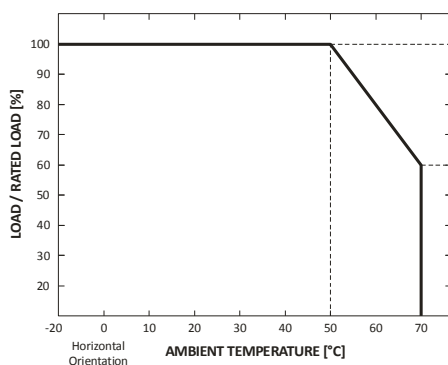
<b>DIMENSIONS</b>	140 x 32 x 25mm (L x W x H)
<b>WEIGHT AND PACKING</b>	0.2kg; 100pcs./box; box weight and dimensions: 20kg; 34.5 x 29 x 23cm

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. Suitable for indoor or outdoor use. Please avoid direct exposure to sunlight and immersion in water for over 30 minutes.
6. 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



#### STATIC CHARACTERISTICS

