

GPV-120 series

120W Constant Voltage LED Power Supply



■ Features:

- Constant voltage design
- European AC input range
- Protections: Overload / Over voltage / Short circuit / Over Temperature
- Cooling by free air convection
- Isolation class II
- TUV certificate
- IP67 Protection level [5]

tc: 80°C

ta: 50°C CONSTANT VOLTAGE

SELV



© ELECTRICAL SPECIFICATION

MODEL	GPV-120-12	GPV-120-24				
OUTPUT						
Rated Voltage	12V	24V				
Rated Current	10A	6A				
Current Range	0 ÷ 10A	0 ÷ 5A				
Rated Power	120W					
Line Regulation	± 1%					
Load Regulation	± 2%					
Tolerance [3]	± 5%					
Ripple & Noise (max.) [2]	200mV _{p-p}	300mV _{p-p}				
Setup, Rise Time [4]	500ms, 50ms / 230VAC at full load					
Hold up Time (typ.)	18ms / 230VAC at full load					
INPUT						
Voltage Range	200-240VAC					
Frequency Range	47 ÷ 63Hz					
Efficiency (typ.)	87%	89%				
AC Current (typ.)	1.7A / 230VAC, 1.5A / 277VAC					
Inrush Current (typ.)	50A / 230VAC; T _{WIDTH} (50% peak) = 1200µs					
Max. No. Of PSU on Circuit Breaker	B10	B16	C10	C16	D10	D16
	2	4	2	4	5	6
Leakage Current (max.)	0.25mA / 240VAC					

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PROTECTIONS

Overload	Range: 110-150% rated power	
	Type: hiccup mode, auto-recovery.	
Short Circuit	Type: hiccup mode, auto-recovery.	
Over Voltage	Range: 13.5-18V	Range: 25-36V
	Type: hiccup mode, auto-recovery.	
Over Temperature	140°C±10°C(detect on main control IC)	
	Type: shut-off, after temperature goes down re-power on to recovery.	

WORKING ENVIRONMENT

Working Temperature	-30°C ÷ 70°C (refer to Derating Curve), ta: 50°C; tc: 80°C
Working Humidity	20 ÷ 90% RH non-condensing
Storage Temperature and Humidity	-30°C ÷ 80°C, 10 ÷ 95% RH non-condensing

SAFETY and EMC REGULATIONS

Safety Standards	Compliance to TUV EN 61347-1, TUV EN 61347-2-13, IP67
Withstand Voltage	IN/OUT: 3kVAC
Isolation Resistance	IN/OUT: 100MΩ/500VDC/25°C/70%
EMC Emission	Compliance to EN55015
EMC Immunity	Compliance to EN61547
Harmonic Current	Compliance to EN61000-3-3; EN61000-3-2

OTHERS

Lifetime	50 000 hours at 230VAC input, ambient temperature 25°C, full load
Dimensions	203 x 70 x 45mm (L x W x H)
Weight and Packing	1.15kg; 15pcs./ctn; ctn weight and dimensions: 18kg; 45 x 29.5 x 19cm

EAN Code



5 902135 131480



5 902135 131497

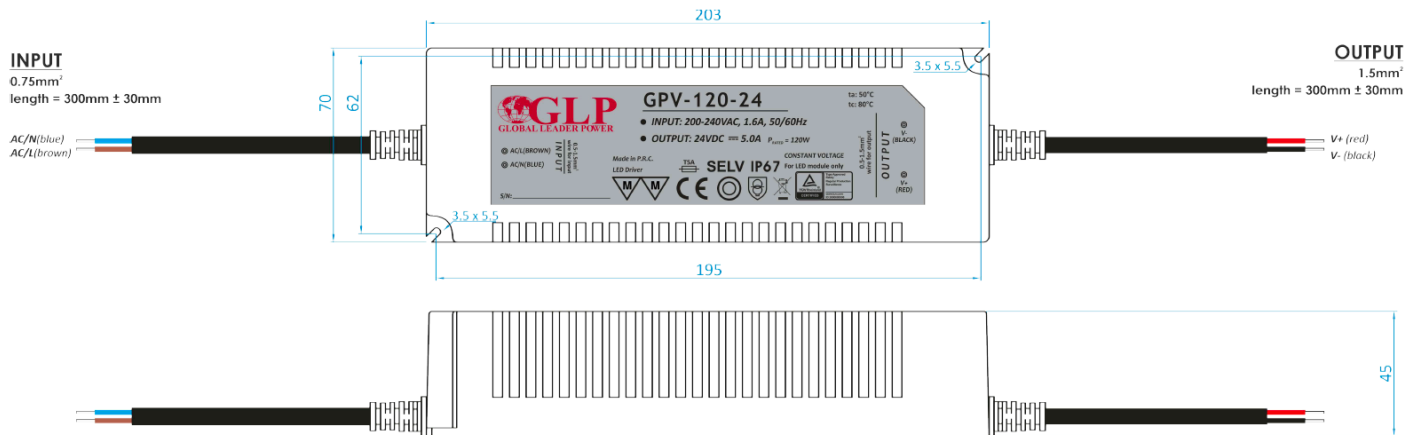
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μF i 47μF parallel capacitor.
3. Tolerance includes set up tolerance, line regulation 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 component not indented to apply by end-user. Power supply meets safety and EMC standards however the final equipment with power supply must be re-quality to comply with EMC Directives.

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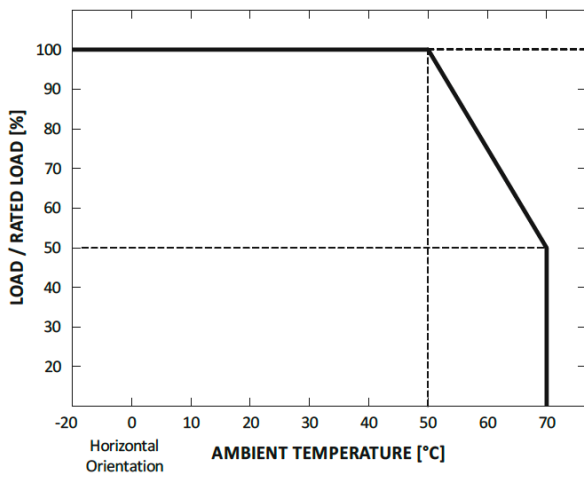
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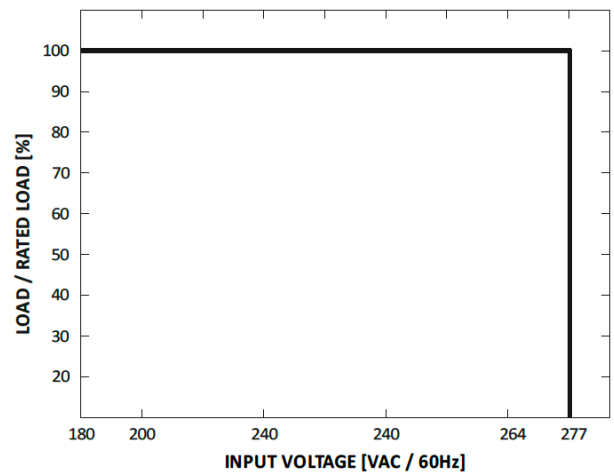
MECHANICAL SPECIFICATION



DERATING CURVE



STATIC CHARACTERISTIC



LIFETIME vs. AMBIENT TEMPERATURE CURVE

