GTPC-45-S series

45W Constant Voltage LED Power Supply



■ Features:

- Constant voltage design
- European AC input range
- Protections: Overload / Over voltage / Short circuit
 - Built-in active PFC function
 - Cooling by free air convection
 - Isolation class II
 - Ultra thin and slim case size

• CB certificate



MODEL GTPC-45-12-S GTPC-45-24-S OUTPUT Rated Voltage 12V 24V Rated Current 3.75A 1.9A Current Range 0 ÷ 3.75A 0 ÷ 1.9A Rated Power 45W Line Regulation ± 5% Load Regulation ± 5% Tolerance [3] ± 5% Ripple & Noise (max.) [21] 500mV _{Po}		CONSTANT VOLTAGE SELV V	
OUTPUT Rated Voltage 12V 24V Rated Current 3.75A 1.9A Current Range 0 ÷ 3.75A 0 ÷ 1.9A Rated Power 45W Line Regulation ± 5% Load Regulation ± 5% Tolerance [3] ± 5%	©ELECTRICAL SPECIFICATION		
Rated Voltage 12V 24V Rated Current 3.75A 1.9A Current Range 0÷3.75A 0÷1.9A Rated Power 45W Line Regulation ±5% Load Regulation ±5% Tolerance [3] ±5%	MODEL	GTPC-45-12-S	GTPC-45-24-S
Rated Current 3.75A 1.9A Current Range 0÷3.75A 0÷1.9A Rated Power 45W Line Regulation ±5% Load Regulation ±5% Tolerance [3] ±5%	OUTPUT		
Current Range 0 ÷ 3.75A 0 ÷ 1.9A Rated Power 45W Line Regulation ± 5% Load Regulation ± 5% Tolerance [3] ± 5%	Rated Voltage	12V	24V
Rated Power 45W Line Regulation ± 5% Load Regulation ± 5% Tolerance [3] ± 5%	Rated Current	3.75A	1.9A
Line Regulation ± 5% Load Regulation ± 5% Tolerance [3] ± 5%	Current Range	0 ÷ 3.75A	0 ÷ 1.9A
Load Regulation ± 5% Tolerance [3] ± 5%	Rated Power	45W	
Tolerance [3] ± 5%	Line Regulation	± 5%	
	Load Regulation	± 5%	
Ripple & Noise (max.) [2] 500mV _{p.p}	Tolerance [3]	± 5%	
supplied and state of the state	Ripple & Noise (max.) [2]	500mV _{P-P}	
Setup [4] 500ms / 230VAC at full load	Setup [4]	500ms / 230VAC at full load	

INPUT						
Voltage Range	180 ÷ 264VAC					
Frequency Range	47 ÷ 63Hz					
Efiiciency (typ.)	86%			90%		
AC Current (typ.)	0.25A / 230VA	С				
Inrush Current (typ.)	25A / 230VAC;	25A / 230VAC; T _{WIDTH} (50% peak) = 300μs				
Max. No. Of PSU on Circuit Breaker	B10	B16	C10	C16	D10	D16
	7	11	14	23	28	43

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PROTECTIONS			
Overload	Range: 120-180% rated power		
	Type: hiccup mode, auto-recove	∍ry.	
Short Circuit	Type: hiccup mode, auto-recove	ery.	
Over Voltage	Range: 17-22V	Range: 28-34V	
	Type: hiccup mode, auto-recove	erv.	

WORKING ENVIRONMENT	
Working Temperature	-20°C ÷ 50°C, ta: 40°C; tc: 90°C
Working Humidity	20 ÷ 90% RH non-condensing
Storage Temperature and Humidity	-20°C ÷ 70°C, 10 ÷ 95% RH non-condensing

SAFETY and EMC REGULATIONS		
Safety Standards	Compliance to EN 61347-1, EN 61347-2-13, EN 60598-1	
Withstand Voltage	IN/OUT: 3.75kVAC	
Isolation Resistance	IN/OUT: 100MΩ/500VDC/25°C/70%	
EMC Emission	Compliance to EN 55015, EN 62493	
EMC Immunity	Compliance to EN 61547	
Harmonic Current	Compliance to EN 61000-3-3; EN 61000-3-2	

OTHERS	
Lifetime (typ.)	35 000 hours / Input 230VAC, ta=50°C at full load
Dimensions	251 x 30 x 16.5mm (L x W x H)
Weight and Packing	130g; 100pcs./ctn; ctn weight and dimensions: 13.5kg; 39.5 x 26.5 x 18cm

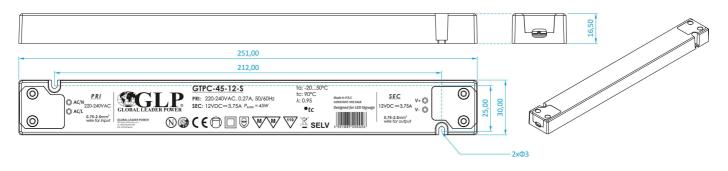
EAN Code





- $1. \ \textit{All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 ^{\circ} C \ of ambient temperature.}$
- 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 time is measured from 0 to 90% rated output voltage.
- 5. 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.

MECHANICAL SPECIFICATION



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