

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

tc: 90°C
ta: 50°C
CONSTANT VOLTAGE

SELV



⊙ ELECTRICAL SPECIFICATION

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.) [2]	500mV _{p-p}					
Setup [4]	500ms / 230VAC at full load					
INPUT						
Voltage Range	180 ÷ 264VAC					
Frequency Range	47 ÷ 63Hz					
Efficiency (typ.)	86%		90%			
AC Current (typ.)	0.25A / 230VAC					
Inrush Current (typ.)	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-recovery.	
Short Circuit	Type: hiccup mode, auto-recovery.	
Over Voltage	Range: 17-22V	Range: 28-34V
	Type: hiccup mode, auto-recovery.	

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. 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 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

