

# 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			
<b>OUTPUT</b>						
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 <sub>p-p</sub>					
Setup [4]	500ms / 230VAC at full load					
<b>INPUT</b>						
Voltage Range	180 ÷ 264VAC					
Frequency Range	47 ÷ 63Hz					
Efficiency (typ.)	86%		90%			
AC Current (typ.)	0.25A / 230VAC					
Inrush Current (typ.)	25A / 230VAC; T <sub>WIDTH</sub> (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

<b>Overload</b>	Range: 120-180% rated power	
	Type: hiccup mode, auto-recovery.	
<b>Short Circuit</b>	Type: hiccup mode, auto-recovery.	
<b>Over Voltage</b>	Range: 17-22V	Range: 28-34V
	Type: hiccup mode, auto-recovery.	

## WORKING ENVIRONMENT

<b>Working Temperature</b>	-10°C ÷ 70°C, ta: 40°C; tc: 90°C
<b>Working Humidity</b>	20 ÷ 90% RH non-condensing
<b>Storage Temperature and Humidity</b>	-20°C ÷ 70°C, 10 ÷ 95% RH non-condensing

## SAFETY and EMC REGULATIONS

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

## OTHERS

<b>Lifetime (typ.)</b>	30 000 hours
<b>Dimensions</b>	251 x 30 x 16.5mm (L x W x H)
<b>Weight and Packing</b>	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

