

# GTPC-100-S series

100W 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-100-12-S		GTPC-100-24-S			
<b>OUTPUT</b>						
Rated Voltage	12V		24V			
Rated Current	8.34A		4.17A			
Current Range	0 ÷ 8.34A		0 ÷ 4.17A			
Rated Power	100W					
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.)	91%		92%			
AC Current (typ.)	0.55A / 230VAC					
Inrush Current (typ.)	50A / 230VAC; T <sub>WIDTH</sub> (50% peak) = 300μs					
Max. No. Of PSU on Circuit Breaker	B10	B16	C10	C16	D10	D16
	3	5	7	11	14	21

# GTPC-100-S series

100W Constant Voltage LED Power Supply



## 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>	-20°C ÷ 45°C, ta: 50°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>	320 x 30 x 18.2mm (L x W x H)
<b>Weight and Packing</b>	170g; 100pcs./ctn; ctn weight and dimensions: 17kg; 40.0 x 34.0 x 23cm

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

