GTPC-50-12 series

50W Single Output Switching Constant Voltage Power Supply with PFC function





■ Features:

- Constant voltage design
- European AC input
- Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Isolation class II



ELECTRICAL SPECIFICATION

MODEL	GTPC-50-12			
ОИТРИТ				
DC Voltage	12V			
Rated Current	4.2A			
Rated Power	50.4W			
Voltage Tolerance [3]	± 5%			
Ripple & Noise (max.) [2]	240mV _{P-P}			
Setup time	<1s / 230VAC			
INPUT				
Voltage Range	180 ÷ 264VAC			
Frequency Range	47 ÷ 63Hz			
Efficiency (typ.)	85%			
AC current (typ.)	0.4A/230VAC			
Power Factor	PF > 0.9 / 230VAC at full load			
No load power consumption (typ.)	< 0.5W			
Inrush current (max.)	<80A / 230VAC(25°C)			
PROTECTIONS				
	Range: 110 ÷ 150% rated current			
Overload	Type: hiccup mode, auto-recovery.			
Short circuit	Type: hiccup mode, auto-recovery.			
Over Voltage	Range: 16 ÷ 19VDC			
	Type: shut down output voltage. Re-power on to recovery.			
	Range: 140°C ± 15°C			
Over Temperature	Type: shut down output voltage. After temperature goes down re-power on to recovery.			

WORKING ENVIRONMENT

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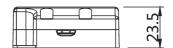
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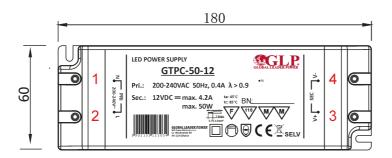
Working Temperature	-25°C ÷ 50°C			
Working Humidity	20 ÷ 95% RH non-condensing			
Storage Temperature and Humidity	-40°C ÷ 80°C, 10 ÷ 95% RH non-condensing			
SAFETY AND EMC REGULATIONS				
Safety Standards	Compliance to EN 61347-1, EN 61347-2-13			
Withstand Voltage	I-P/O-P: 3.75kVAC			
Isolation Resistance	I-P/O-P:100MΩ/500VDC/25°C/70%			
EMC Emission	Compliance to EN 55015			
EMC Immunity	Compliance to EN 61547; IEC 61000-4-2, -3, -4, -5, -6, -8, -11			
Harmonic Current	Compliance z EN61000-3-3; EN61000-3-2			
OTHERS				
Dimensions	180 x 60 x 23.5mm (L x W x H)			
Weight (nett/gross)	0.23kg/0.25kg			

- 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 incudes set up tolerance, line regulation and load regulation.
- 4. Power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment must be re-qualify to comply with EMC Directives.

MECHANICAL SPECIFICATION







PIN ASSIGNMENT					
No.	Assignment	No.	Assignment		
1	Input: AC/N	3	Output: U _{OUT} -		
2	Input: AC/L	4	Output: U _{out} +		