FTPC100V-ZIGBEE series

100W LED Switching Power Supply (CV) with ZIGBEE protocol



■Features:

• Constant voltage design

• Protections: Short circuit / Overload / Over temperature

• Cooling by free air convection

• Compliance to worldwide regulations for lighting

• Suitable to Zigbee Home Automation 1.2 Protocol



MODEL	FTPC100V24-ZIGBEE		
OUTPUT			
Rated Voltage	24V		
Rated Current	4.17A		
Current Range	0÷4.17A		
Maximum current for one output [6]	3A		
Number of outputs	4		
Rated Power	100W		
No Output Voltage (max.)	25.2V		
Line Reglation	± 1%		
Load Reglation	± 1%		
Voltage Tolerance [3]	± 3%		
Ripple & Noise (max.) [2]	250mV _{P-P}		
Setup, Rise Time [4]	500ms, 100ms / 230VAC at full load		
Hold up Time (typ.)	10ms / 230VAC at full load		
INPUT			
Voltage Range	180 ÷ 264VAC		
Frequency Range	50 ÷ 60Hz		
Power Factor (typ.)	PF > 0.9 / 230VAC at full load		
Efficiency (typ.)	93%		
AC current (typ.)	<0.70A / 230VAC		
Inrush current (max.)	<75A / 230VAC(25°C)		
No Load Power Consumption (max.)	< 0.21W		
PROTECTIONS			
Over Current	Range: 110 ÷ 140%		
	Type: hiccup mode. Recovers automatically after fault condition is removed.		
Short Circuit	Type: hiccup mode. Recovers automatically after fault condition is removed.		
Over Voltage	36V		
	Type: shut down output voltage. Re-power on to recovery.		
Over Temperature	Range: 110°C ± 10°C		

Type: shut down output voltage. Re-power on to recovery.

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WORKING ENVIRONMENT

Working Temperature	-20°C ÷ +45°C	
Working Humidity	45 ÷ 85% RH non-condensing	
Storage Temperature and Humidity	-30°C ÷ +70°C, 10 ÷ 95% RH non-condensing	
SAFETY AND EMC REGULATIONS		
Safety Standards	Compliance to EN61347-1, EN61347-2-13, EN62493	
ZIGBEE	Compliance to IEEE802.15.4	
EMC Emission	Compliance to EN55015	
EMC Immunity	Compliance to EN61547	
Harmonic Current	Compliance to EN61000-3-3; EN61000-3-2 class C	
OTHERS		
Dimensions	219.5 x 56.4 x 16.8mm (L x W x H)	
Weight and Packing	0.25kg; 50pcs./box; box dimensions: 31 x 22.5 x 22.5cm	
EAN Code	5 9021351133842	

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 and rise 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.

6. The total current on all outputs must not exceed the maximum output current of the PSU

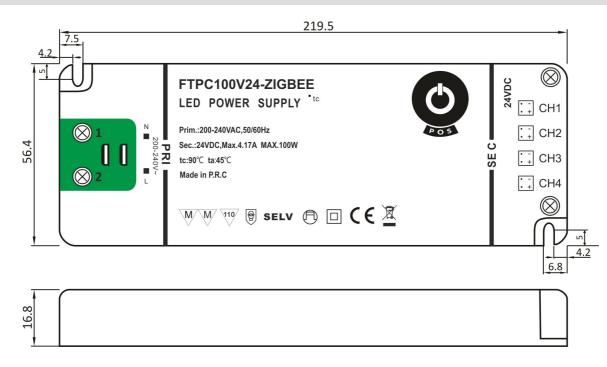
7	Zishaa Ulawa automatian 4.2	
Zigbee protocol	Zigbee Home automation 1.2	Type: Zigbee,ZigbeePRO,ZigbeeRF4CE,6LoWPAN
Function	ON/OFF	ON:0% to memory status brightness gradient
	Brightness adjustment	1%-100% brightness adjustment
	Memory of the status	After joining the network,power on and restore the status before outage again
	OTA function	Suitable to Zigbee protocol OTA standard
Factory Settings	Turn on,100% brightness	Default unnetworked status,serching the gateway when power on
Non network Stat2	power on but unnetworked, the indicate bulb is flashing	3 times ,one second on light(100% brightness),one second turn off
Join the network indication	Breathing light	100% brightness to 10% gradually, to 100% again, repeated 3 times, keeping 100% brightness finally.
Exit the network indication	Bulb flashing showing exit the network succesfully	3times,one second brightness (100%brightness),one second of
Restore the factory settings	Repeat the status for bulb power on and off	Power on and off 5 times, repeat 5 times, when successful, the bulb begin the indication of exit network
	reset Factory new instruction	The gateway sends Factory new instruction and exit network instruction, when successful, the bulb indicates to exit network

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® MECHANICAL SPECIFICATION



PINASSIGNMENT		
No.	Assignment	
1	Input: AC/N	
2	Input: AC/L	