FTPC100V-S series

EED POHER SUPPLY

FIRECOGNIZS

LED POHER SUPPLY

100W LED Switching Power Supply (CV)





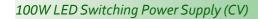
- Constant voltage design
- European AC input range
- Protections: Short circuit / Over current / Over voltage / Over Temperature
 - Cooling by free air convection
 - Compliance to worldwide regulations for lighting
 - Extremely short and slim case size



© ELECTRICAL SPECIFICATION FTPC100V12-S FTPC100V24-S OUTPUT Rated Voltage 12V 24V Rated Current 8.33A 4.17A Current Range 0÷8.33A 0÷4.17A Rated Power 99.96W 100.08W No Output Voltage (max.) 12.6V 24.8V Line Regulation ±1% 4.2W Voltage Tolerance [3] ±5% 600mV _{P+} Ripple & Noise (max.) [2] 500mV _{P+} 600mV _{P+} Setup, Rise Time [4] 500ms, 50ms / 230VAC at full load 400mmV _{P+} Hold up Time (typ.) 10ms / 230VAC at full load 10ms / 230VAC at full load INPUT Voltage Range 47 ÷ 63H2 90% Power Factor (typ.) 90% 90% AC current (typ.) 90% 90% AC current (typ.) 0.7A / 230VAC 10ms / 230VAC (25°C) No Load Power Consumption (max.) 0.5W 10ms / 230VAC (25°C) PROTECTIONS 8ange: 110 + 140% 140%		V V V ♥ ♥ □ C C SELV		
COUTPUT Rated Voltage 12V 24V Rated Current 8.33A 4.17A Current Range 0 ÷ 8.33A 0 ÷ 4.17A Rated Power 99.96W 100.08W No Output Voltage (max.) 12.6V 24.8V Line Regulation ± 1% 2.2C Voltage Tolerance [3] ± 5% 3.2C 3.2C Ripple & Noise (max.) [2] 500mx, 50ms / 230VAC at full load 5.2C 5.2C 5.2C Ripple & Nise Time [4] 500ms, 50ms / 230VAC at full load 5.2C 5.2C <th< th=""><th>©ELECTRICAL SPECIFICATION</th><th colspan="3">PECIFICATION</th></th<>	©ELECTRICAL SPECIFICATION	PECIFICATION		
Rated Voltage 12V 24V Rated Current 8.33A 4.17A Current Range 0 ÷ 8.33A 0 ÷ 4.17A Rated Power 99.96W 100.08W No Output Voltage (max.) 12.6V 24.8V Line Regulation ± 1% Load Regulation ± 2% Voltage Tolerance [3] ± 5% Ripple & Noise (max.) [2] 500mV _{P.P} 600mV _{P.P} Setup, Rise Time [4] 500ms, 50ms / 230VAC at full load Hold up Time (typ.) 10ms / 230VAC at full load INPUT Voltage Range 180 ÷ 264VAC Frequency Range 47 ÷ 63Hz Power Factor (typ.) PF > 0.9 / 230VAC pod pelnym obciążeniem Efficiency (typ.) 90% AC current (typ.) 0.7A / 230VAC Inrush current (max.) 75A / 230VAC(25°C) No Load Power Consumption (max.) 0.5W	MODEL	FTPC100V12-S	FTPC100V24-S	
Rated Current 8.33A 4.17A Current Range 0 ÷ 8.33A 0 ÷ 4.17A Rated Power 99.96W 100.08W No Output Voltage (max.) 12.6V 24.8V Line Regulation ± 1% Load Regulation ± 2% Voltage Tolerance [3] ± 5% 600mV _{PP} Setup, Rise Time [4] 500mV _{PP} 600mV _{PP} Setup, Rise Time [4] 10ms / 230VAC at full load Hold up Time (typ.) 10ms / 230VAC at full load INPUT Voltage Range 180 ÷ 264VAC Frequency Range 47 ÷ 63Hz Power Factor (typ.) PF > 0.9 / 230VAC pod pelnym obciążeniem Efficiency (typ.) 90% AC current (typ.) 0.7A / 230VAC Inrush current (max.) 75A / 230VAC(25°C) No Load Power Consumption (max.) 0.5W PROTECTIONS	ОUТРUТ			
Current Range 0 ÷ 8.33A 0 ÷ 4.17A Rated Power 99.96W 100.08W No Output Voltage (max.) 12.6V 24.8V Line Regulation ± 1%	Rated Voltage	12V	24V	
Rated Power 99.96W 100.08W No Output Voltage (max.) 12.6V 24.8V Line Regulation ± 1% Load Regulation ± 2% Voltage Tolerance [3] ± 5% Ripple & Noise (max.) [2] 500mV _{PP} 600mV _{PP} Setup, Rise Time [4] 500ms, 50ms / 230VAC at full load Hold up Time (typ.) 10ms / 230VAC at full load INPUT Voltage Range 180 ÷ 264VAC Frequency Range 47 ÷ 63Hz Power Factor (typ.) PF > 0.9 / 230VAC pod pelnym obciążeniem Efficiency (typ.) 90% 90% AC current (typ.) 10.7A / 230VAC Inrush current (max.) 75A / 230VAC(25°C) No Load Power Consumption (max.) 0.5W PROTECTIONS Range: 110 ÷ 140%	Rated Current	8.33A	4.17A	
No Output Voltage (max.) Line Regulation ± 1% Load Regulation ± 2% Voltage Tolerance [3] £ 5% Ripple & Noise (max.) [2] Sounv _{P-P} Setup, Rise Time [4] Hold up Time (typ.) INPUT Voltage Range 180 ÷ 264VAC Frequency Range 47 ÷ 63Hz Power Factor (typ.) Efficiency (typ.) AC current (typ.) Inrush current (max.) No Load Power Consumption (max.) PROTECTIONS P1 1	Current Range	0 ÷ 4.17A		
Line Regulation ± 1% Load Regulation ± 2% Voltage Tolerance [3] ± 5% Ripple & Noise (max.) [2] 500mV _{P.P} 600mV _{P.P} Setup, Rise Time [4] 500ms, 50ms / 230VAC at full load Hold up Time (typ.) 10ms / 230VAC at full load INPUT Voltage Range 180 ÷ 264VAC Frequency Range 47 ÷ 63Hz Power Factor (typ.) PF > 0.9 / 230VAC pod pełnym obciążeniem Efficiency (typ.) 90% 90% AC current (typ.) 10.7A / 230VAC Inrush current (max.) 75A / 230VAC(25°C) No Load Power Consumption (max.) 0.5W PROTECTIONS Range: 110 ÷ 140%	Rated Power	99.96W 100.08W		
Load Regulation ± 2% Voltage Tolerance [3] ± 5% Ripple & Noise (max.) [2] 500mV _{P-P} 600mV _{P-P} Setup, Rise Time [4] 500ms, 50ms / 230VAC at full load Hold up Time (typ.) INPUT Voltage Range 180 ÷ 264VAC Frequency Range 47 ÷ 63Hz Power Factor (typ.) PF > 0.9 / 230VAC pod pełnym obciążeniem Efficiency (typ.) 90% AC current (typ.) 0.7A / 230VAC Inrush current (max.) 75A / 230VAC(25°C) No Load Power Consumption (max.) 0.5W PROTECTIONS Range: 110 ÷ 140%	No Output Voltage (max.)	12.6V	24.8V	
Voltage Tolerance [3] ± 5% Ripple & Noise (max.) [2] 500mV _{P-P} 600mV _{P-P} Setup, Rise Time [4] 500ms, 50ms / 230VAC at full load Hold up Time (typ.) 10ms / 230VAC at full load INPUT Voltage Range 180 ÷ 264VAC Frequency Range 47 ÷ 63Hz Power Factor (typ.) PF > 0.9 / 230VAC pod pełnym obciążeniem Efficiency (typ.) 90% AC current (typ.) 0.7A / 230VAC Inrush current (max.) 75A / 230VAC(25°C) No Load Power Consumption (max.) 0.5W PROTECTIONS Range: 110 ÷ 140%	Line Regulation	± 1%		
Ripple & Noise (max.) [2] 500mV _{P.P} 600mV _{P.P} Setup, Rise Time [4] 500ms, 50ms / 230VAC at full load Hold up Time (typ.) 10ms / 230VAC at full load INPUT Voltage Range 180 ÷ 264VAC Frequency Range 47 ÷ 63Hz Power Factor (typ.) PF > 0.9 / 230VAC pod pełnym obciążeniem Efficiency (typ.) 90% AC current (typ.) 0.7A / 230VAC Inrush current (max.) 75A / 230VAC(25°C) No Load Power Consumption (max.) 0.5W PROTECTIONS Range: 110 ÷ 140%	Load Regulation	± 2%		
Setup, Rise Time [4] 500ms, 50ms / 230VAC at full load Hold up Time (typ.) 10ms / 230VAC at full load INPUT Voltage Range 180 ÷ 264VAC Frequency Range 47 ÷ 63Hz Power Factor (typ.) PF > 0.9 / 230VAC pod pełnym obciążeniem Efficiency (typ.) 90% AC current (typ.) 0.7A / 230VAC Inrush current (max.) 75A / 230VAC(25°C) No Load Power Consumption (max.) 0.5W PROTECTIONS Range: 110 ÷ 140%	Voltage Tolerance [3]	± 5%		
10ms / 230VAC at full load 1NPUT 180 ÷ 264VAC 180 ÷ 264VAC 180 ÷ 264VAC 180 ÷ 63Hz 180 ÷ 63Hz	Ripple & Noise (max.) [2]	500mV _{P-P} 600mV _{P-P}		
INPUT 180 ÷ 264VAC	Setup, Rise Time [4]	500ms, 50ms / 230VAC at full load		
Voltage Range 180 ÷ 264VAC Frequency Range 47 ÷ 63Hz Power Factor (typ.) PF > 0.9 / 230VAC pod pełnym obciążeniem Efficiency (typ.) 90% AC current (typ.) 0.7A / 230VAC Inrush current (max.) 75A / 230VAC(25°C) No Load Power Consumption (max.) 0.5W PROTECTIONS Range: 110 ÷ 140%	Hold up Time (typ.)	10ms / 230VAC at full load		
Frequency Range 47 ÷ 63Hz Power Factor (typ.) PF > 0.9 / 230VAC pod pełnym obciążeniem Efficiency (typ.) 90% AC current (typ.) 0.7A / 230VAC Inrush current (max.) 75A / 230VAC(25°C) No Load Power Consumption (max.) 0.5W PROTECTIONS Over Current Range: 110 ÷ 140%	INPUT			
Power Factor (typ.) PF > 0.9 / 230VAC pod pełnym obciążeniem Efficiency (typ.) 90% 90% AC current (typ.) 0.7A / 230VAC Inrush current (max.) 75A / 230VAC(25°C) No Load Power Consumption (max.) 0.5W PROTECTIONS Range: 110 ÷ 140% Range: 110 ÷ 140%	Voltage Range	180 ÷ 264VAC		
Efficiency (typ.) 90% 90% AC current (typ.) 0.7A / 230VAC Inrush current (max.) 75A / 230VAC(25°C) No Load Power Consumption (max.) 0.5W PROTECTIONS Range: 110 ÷ 140%	Frequency Range	47 ÷ 63Hz		
AC current (typ.) Inrush current (max.) No Load Power Consumption (max.) PROTECTIONS Range: 110 ÷ 140% Range: 110 ÷ 140%	Power Factor (typ.)	PF > 0.9 / 230VAC pod pełnym obciążeniem		
Inrush current (max.) 75A / 230VAC(25°C) No Load Power Consumption (max.) 0.5W PROTECTIONS Over Current Range: 110 ÷ 140%	Efficiency (typ.)	90%		
No Load Power Consumption (max.) PROTECTIONS Range: 110 ÷ 140%	AC current (typ.)	0.7A / 230VAC		
PROTECTIONS Range: 110 ÷ 140%	Inrush current (max.)	75A / 230VAC(25°C)		
Over Current Range: 110 ÷ 140%	No Load Power Consumption (max.)	0.5W		
Over Current	PROTECTIONS			
	Over Comment	Range: 110 ÷ 140%		
Type: hiccup mode. Recovers automatically after fault condition is removed.	Over Current	Type: hiccup mode. Recovers automatically after fault condition is removed.		
Short Circuit Type: hiccup mode. Recovers automatically after fault condition is removed.	Short Circuit	Type: hiccup mode. Recovers automatically after fault condition is removed.		
Over Voltage 13.5 ÷ 18.5V	Over Voltage	13.5 ÷ 18.5V		
Type: shut down output voltage, auto-recovery.	Over voltage	Type: shut down output voltage, auto-recovery.		
Range: 110°C ± 10°C Over Temperature	Over Temperature	Range: 110°C ± 10°C		
Type: shut down output voltage. Re-power on to recovery.	Over reinperuture	Type: shut down output voltage. Re-power on to recovery.		

FTPC100V-C-spec-EN-R1 23.03.2017 1/2

FTPC100V-S series



WORKING ENVIRONMENT



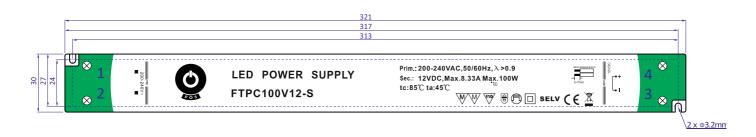
WORKING ENVIRONMENT		
Working Temperature	-20°C ÷ +45°C	
Working Humidity	45 ÷ 85% RH non-condensing	
Storage Temperature and Humidity	-30°C ÷ +70°C, 10 ÷ 95% RH non-condensing	
SAFETY AND EMC REGULATIONS		
Safety Standards	Compliance to EN61347-1, EN61347-2-13 , EN 62493	
Withstand Voltage	IN/OUT: 3.75kVAC	
EMC Emission	Compliance to EN55015	
EMC Immunity	Compliance to EN61547	
Harmonic Current	Compliance to EN61000-3-3; EN61000-3-2	
0711770		

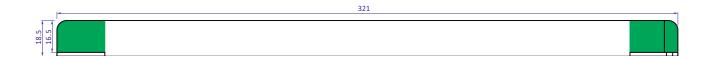
$\boldsymbol{\cap}$	т	ш	_	О	•
O		п	_	к	~
•					_

Dimensions	321 x 30 x 18.5mm (L x W x H)	
Weight and Packing	0.25kg; 50pcs./box; box dimensions: 34 x 21.5 x	14cm
EAN Code	5 9 0 2 1 3 5 1 2 1 7 9 5 1	5 9 0 2 1 3 5 1 2 1 8 0 1

- 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.
- ${\it 3. Tolerance includes set up tolerance, line regulation and load regulation.}$
- 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.

OMECHANICAL SPECIFICATION





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

FTPC100V-C-spec-EN-R1 23.03.2017 2/2