

FTMC150V-DA series

150W LED Constant voltage Switching Power Supply, DALI and push dimming



PRELIMINARY

■ Features:

- Constant voltage design
- European AC input range
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Cooling by free air convection
- Isolation class I
- Built-in active PFC function
- Linear shape
- DALI and push dimming function



© ELECTRICAL SPECIFICATION

MODEL	FTMC150V12-DA	FTMC150V24-DA
OUTPUT		
Rated Voltage	12V	24V
Rated Current	11A	6.25A
Rated Power	132W	150W
Power Range	0 ÷ 132W	0 ÷ 150W
Dimming Range	1 - 100%	
Line Regulation	± 1%	
Load Regulation	± 2%	
Voltage Tolerance [2]	± 5%	
Ripple & Noise (max.) [3]	150mV _{p-p}	160mV _{p-p}
Setup, Rise, Holdup time [4]	500ms, 2s, 10ms	
INPUT		
Voltage Range	220 ÷ 240VAC	
Frequency Range	50/60Hz	
Power Factor (typ.)	PF > 0.98/ 230VAC at full load	
Efficiency (typ.)	92%	
AC current (typ.)	0.75A / 230VAC	0.83A / 230VAC
Inrush current (max.)	50A / 230VAC(25°C)	
No Load Power Consumption (max.)	1.5W	
PROTECTIONS		
Over Current	Range: 110 ÷ 150% Type: hiccup mode. Recovers automatically after fault condition is removed.	
Over Voltage	Range: 120 ÷ 150% Type: hiccup mode. Recovers automatically after fault condition is removed.	
Short Circuit	Type: hiccup mode. Recovers automatically after fault condition is removed.	
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	-40°C ÷ 45°C
Working Humidity	15 ÷ 95% RH non-condensing
Storage Temperature and Humidity	-40°C ÷ 80°C, 10 ÷ 95% RH non-condensing

SAFETY AND EMC REGULATIONS

Safet Standards	Compliance to EN61347-1, EN61347-2-13
DALI Standards	Compliance to DALI 2.0 standard (IEC 62386-101, 102, 207)
Withstand Voltage	IN/OUT: 5.3kVDC/1min
Isolation Resistance	IN/OUT: 50MΩ/500VDC/25°C/70%
EMC Emission	Compliance to EN55015
EMC Immunity	Compliance to EN61547; EN61000-4-2, -3, -4, -5, -6;
Harmonic Current	Compliance to EN61000-3-3; EN61000-3-2 class C (≥ 100% load)

OTHERS

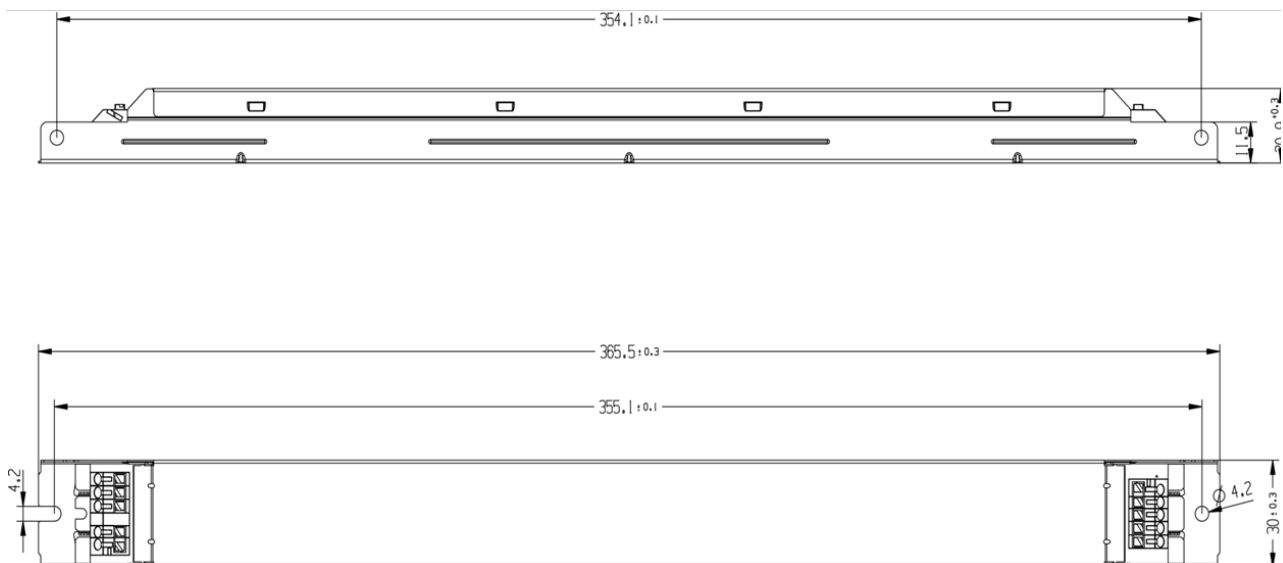
Dimensions	365 x 30 x 21mm (L x W x H)
Weight and Packing	0.8kg; 50pcs./ctn; ctn dimensions: 39 x 21 x 33cm

EAN Code



1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Tolerance includes set up tolerance, line regulation and load regulation.
3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μF i 47μF parallel capacitor.
4. Setup and rise time is measured from 0 to 90% rated output voltage.
5. 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



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© DALI WIRING DIAGRAM



© PUSH DIMMING WIRING DIAGRAM



PIN ASSIGNMENT	
Function	Description
DA	DA signal/ neutral wire
DA	DA signal/ line wire
AC/N	Input: AC/N
AC/L	Input: AC/L
Vout +	Output: U_{out+}
Vout -	Output: U_{out-}