

# AcTEC LED DRIVER

# IE-12D

## SPECIFICATION

Description	220-240V DALI Dimming LED Driver, Constant Current Driver
Electrical Characteristics	Ta = 25°C, 220-240Vrms input, standard reference load; unless otherwise specified
Class II, IP20, thermally protected 110, independent driver	

<b>Product Name</b>	IE-12D		
<b>Input Parameters</b>			
Rated Input Voltage	Uin	220-240VAC	
Input Current (Full load)	Iin	0.08A	
Input Frequency	fin	50/60Hz	
Maximum Input Power	Pin	16W	
Power Factor (Full load)	λ	0.80C	≥0.95
THD(Full load)		≤25%	≤20%
Efficiency (Full load)	η	≥79%	
No-load power		≤0.5W	
Inrush current		≤15.0A	
Turn on time		≤700ms	

<b>Output Parameters</b>									
Output Voltage	Vout	18-54V	18-52V	15-46V	15-42V	15-34V	15-30V	15-27V	15-24V
Output Current (Full load)	Iout	180mA±5%	230mA±5%	260mA±5%	300mA±5%	350mA±5%	400mA±5%	450mA±5%	500mA±5%
Output Power (Full load)	Pout	10W	12W						
Operating Frequency(Full load)	Fout	90KHz							
Ripple & Noise		≤200mA							
Load Regulation		≤5%							
Line Regulation		≤5%							

<b>Ambient</b>		
Storage Temperature	ts	-20 ... + 70°C
Operating Ambient Temperature	ta	-20 ... + 50°C
Case Temperature at tc Point	tc	80°C
Relative humidity		5 ... 85%

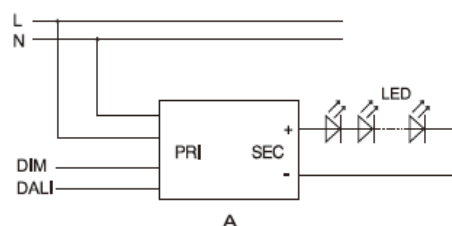
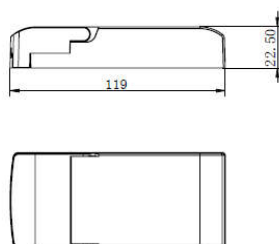
<b>Protection</b>		
No Load		Auto-recovery if fault is removed
Over Load		Auto-recovery if fault is removed
Short Circuit		Auto-recovery if fault is removed

<b>System Parameters</b>		
Withstand voltage		3.75KVAC, Ileakage<5mA, 60s
Expected Life		50,000Hours

<b>Compliances and approvals</b>		
Safety		EN 61347-2-13
RFI		EN 55015
Harmonics		EN 61000-3-2 Class C
Immunity		EN 61547

1. All parameters NOT specially mentioned are measured at 240VAC input, rated load and 25 of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor.
3. Expected Life:tc=80°C,0.2%/1000h failure rate

## Physical Parameter



Dimensions(LxWxH): 119x52x22.5mm

Housing Material:PC Plastic

Input Captured Terminal Screw for 0.5~2.5mm<sup>2</sup>

Output Captured Terminal Screw for 0.5~1.5mm<sup>2</sup>