

SPECIFICATION

Description	100-240V LED Driver, Constant Voltage Driver
Electrical Characteristics	Ta = 25°C, 100-240Vrms input, standard reference load; unless otherwise specified
Class II, IP20, thermally protected 110, independent driver	

Product Name		UT12V/50W
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Input Parameters		
Rated Input Voltage	U _{in}	100-240VAC
Input Current (Full load)	i _{in}	0.60A
Input Frequency	f _{in}	50/60Hz
Maximum Input Power	P _{in}	59.0W
Power Factor (Full load)	λ	≥0.95
THD(Full load)		≤10%
Efficiency (Full load)	η	≥84%
No-load power		≤0.5W
Inrush current		≤15.0A
Turn on time		≤500ms

Output Parameters		
Output Voltage	V _{out}	12V±5%
Output Current (Full load)	i _{out}	4.16A
Output Power (Full load)	P _{out}	50.0W
Operating Frequency(Full load)	F _{out}	65KHz
Ripple & Noise		≤800mV
Load Regulation		≤5%
Line Regulation		≤5%

Ambient		
Storage Temperature	t _s	-20 ... + 70°C
Operating Ambient Temperature	t _a	-20 ... + 50°C
Case Temperature at t _c Point	t _c	85°C
Relative humidity		5 ... 85%

Protection		
No Load		Auto-recovery if fault is removed
Over Load		Auto-recovery if fault is removed
Short Circuit		Auto-recovery if fault is removed

System Parameters		
Withstand voltage		3.75KVAC, I _{leakage} <5mA, 60s
Average Service Life		30,000Hours

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

Note

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. Average Service Life: The number of hours when 50% of any large group of drivers have failed.

Physical Parameter

Dimensions(LxWxH): 185x64x22mm

Housing Material::PC Plastic

Captured Terminal Screw for 0.5~1.5mm²



