

## 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	

<b>Product Name</b>		Q3-24V-100W
<b>Input Parameters</b>		
Rated Input Voltage	Uin	100-240VAC
Input Current (Full load)	Iin	1.2A
Input Frequency	fin	50/60Hz
Maximum Input Power	Pin	110W
Power Factor (Full load)	λ	≥0.95
THD(Full load)		≤15%
Efficiency (Full load)	η	≥91%
No load power		≤0.5W
Inrush current(Cold Start)	Apk	50(th=300us)
Turn on time		≤500ms
<b>Output Parameters</b>		
Output Voltage	Vout	24V±5%
Output Current (Full load)	Iout	4.16A
Output Power (Full load)	Pout	100W
Operating Frequency(Full load)	Fout	90KHz
Ripple & Noise		≤500mVp-p
Load Regulation		±5%
Line Regulation		±5%
<b>Ambient</b>		
Storage Temperature	ts	-20 ...+ 70°C
Operating Ambient Temperature	ta	-20 ...+ 45°C
Case Temperature at tc Point	tc	85°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
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

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

**Physical Parameter**

Dimensions(LxWxH): 184x61x32mm  
 Housing Material::PC Plastic  
 Captured Terminal Screw for 0.75~2.5mm<sup>2</sup>