FULHAM WORKHORSE LED™

T1R1UNV150P-100C
SPECIFICATIONS

RoHS COMPLIANT IP65 Dimmable 100% - 10%,0% c UL us LISTED E342838

- Programmable LED Driver
- Output Wattage: 100W
- Universal Voltage (120-277VAC)
- CC Programmable 500-1500mA

- Wireless Dimming
- Square Case and Wire
- Output voltage range of 50-150VDC
- UOUT 170VDC

General Specifications

Input Voltage	120-277VAC, 50/60 Hz
Input Current	0.95A Max.
Input Power	115W
NTC Input	Ext. NTC Derating Resistence Range: 1k to 51k Ohm programmable.
	Default/Recommended Ext. NTC P/N:TSM2A104J4503RZ,SMD0805,Thinking Electronic.
Power Factor	>0.9
THD	<20%
Efficiency	>90% Typical
Driver Type	Constant Current,Constant Power
Output Current	500-1500mA Programmable; See Label For Set Current; To Program Use R-SET (Figure 1) Or TPSB-100 (Programmer); Record New Setting On 1"x0.5" Label
Output Voltage Range	50-150VDC
Output Power	100W Max.
Number of Output Channels	1 Channel
Dimming Controller Type/Dimming Range	Wireless
RFI/EMI	FCC Part 15B
Output Type	NON Class 2
Potting Type / Degree of Fill	Potting As Per ASTM D36-86 / Fully Potted
Ambient Operating Temperature Range	-40°C to 60°C (-40°F to 140°F)
Max. Case Temperature	90°C (194°F)
Sound Rating	A
Input Surge Protection	Line-Neutral 4kV, Line & Neutral-Ground 6kV
Protections	Input Current Protection
	Output Short Circuit Protection
	Output Open Circuit Protection
	Output to Ground Short Protection
	Overload Protection
	Over Temperature Protection
FCC	ID: 2AJ9L1R1UNV150P100C
	This device complies with Part 15 of the FCC Rules.Operation is subject to the following two conditions:
	1.This device may not cause harmful interference
	2.This device must accept any interference received,including interference that may cause undesired operation.
Runtime Counting of Every 10 Degrees	Yes
Service Life	50,000 hours @Tc 74°C (165.2°F)
Approvals / Class	UL Listed, Class P, Type HL,FCC,Dry and Damp
Warranty	5 years

Figure 1

R-SET Curve (CV=60V, CV=100V, CV=150V) — Io (mA) vs Resistor Value(Kohm)

Figure 2

Wireless Linear Dimming Curve — OUTPUT CURRENT vs Dimming Percent (AC277V/60Hz 60V 500MA, AC277V/60Hz 60V 1050MA, AC277V/60Hz 60V 1500MA)
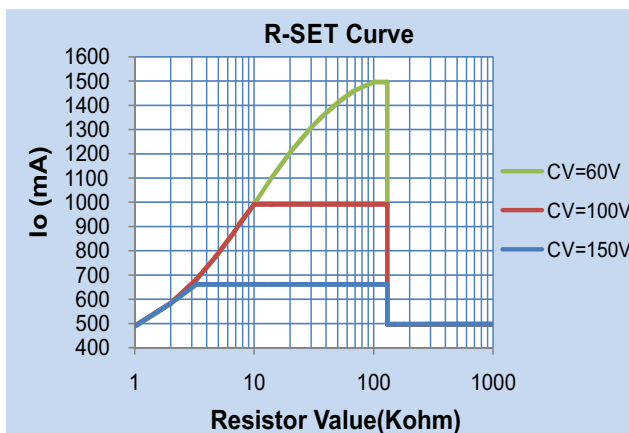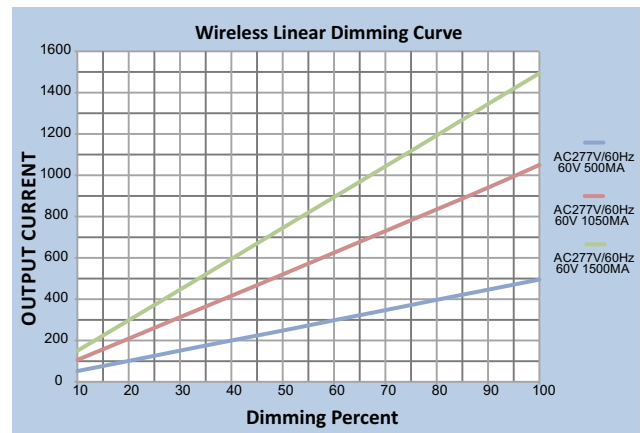
Fulham extends a limited warranty to the original purchaser or first user for a period of 5 years @ Tc74°C from the date of manufacture when properly installed and operated under normal conditions of use. The usage of appropriate series connected Surge Protection Device (SPD) is required in high risk applications.For complete terms and conditions, please refer to the Warranty Center at www.fulham.com. Specifications subject to change without notice.
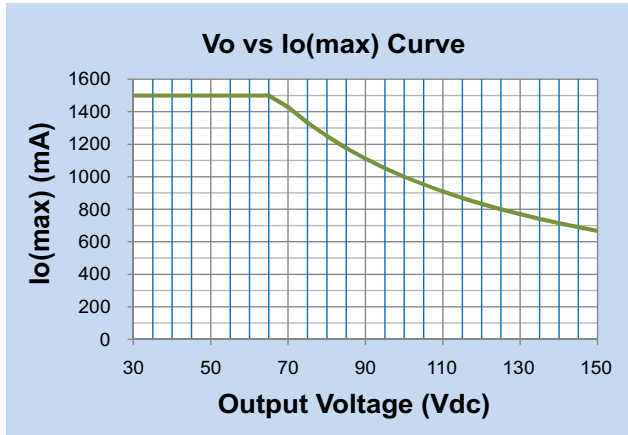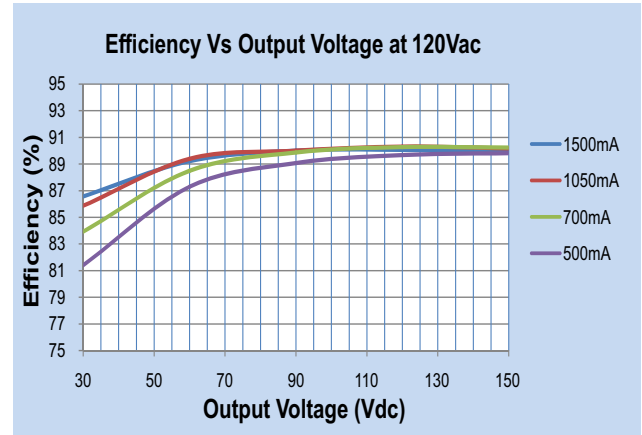
Figure 3

Vo vs Io(max) Curve

Figure 4

Efficiency Vs Output Voltage at 120Vac

Figure 5

Efficiency Vs Output Voltage at 230Vac

Figure 6

Efficiency Vs Output Voltage at 277Vac

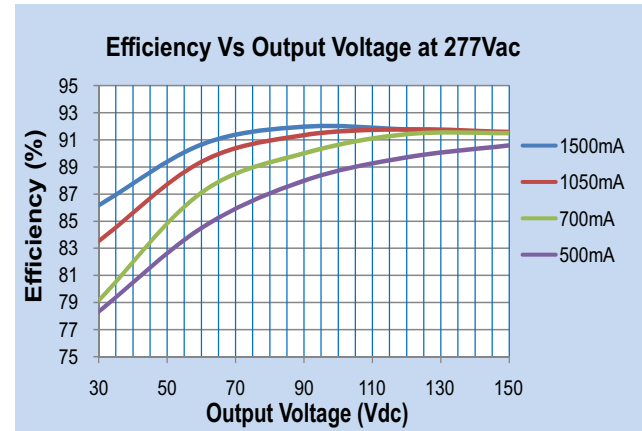**Figure 7**

Power Factor vs Output Power

Figure 8

Lifetime vs Tcase
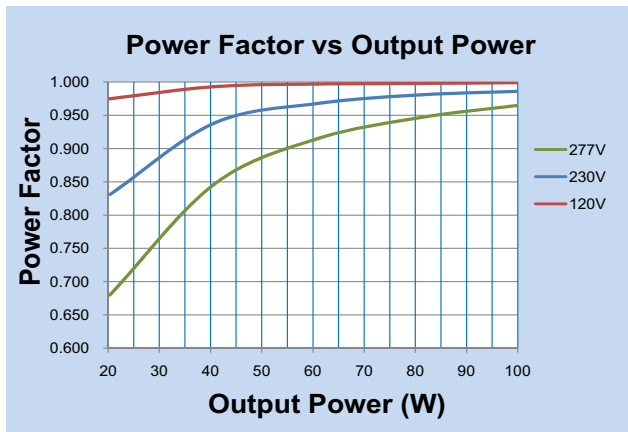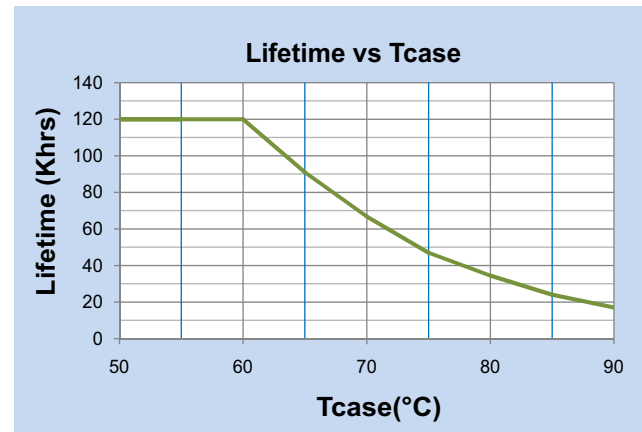
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RoHS COMPLIANT   IP65

Dimmable
100% - 10%,0%

c (UL) us
LISTED
E342838

Figure 9

THD vs Output Power

- 120V
- 230V
- 277V

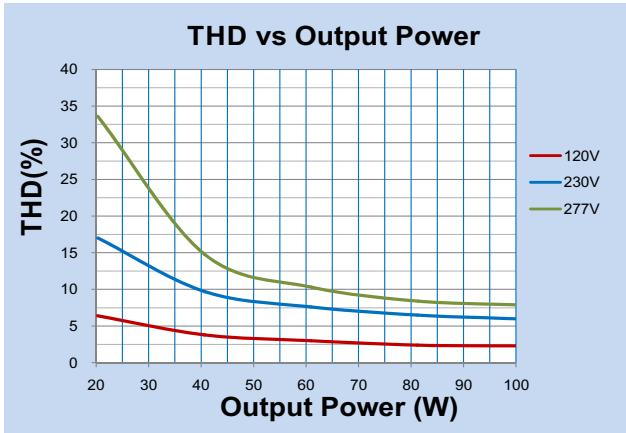**Figure 10**
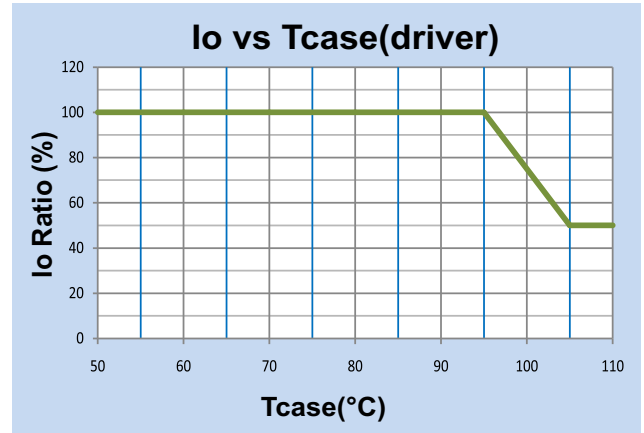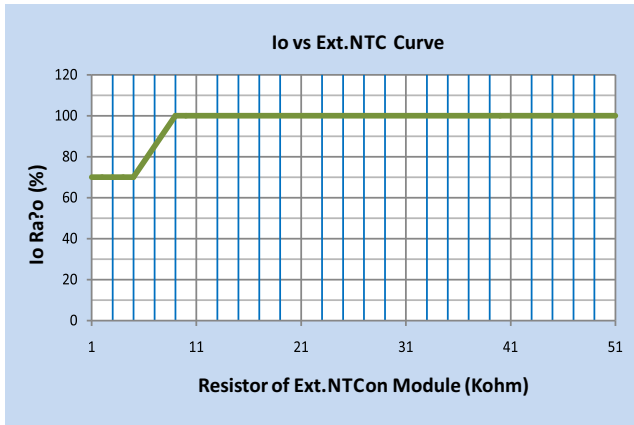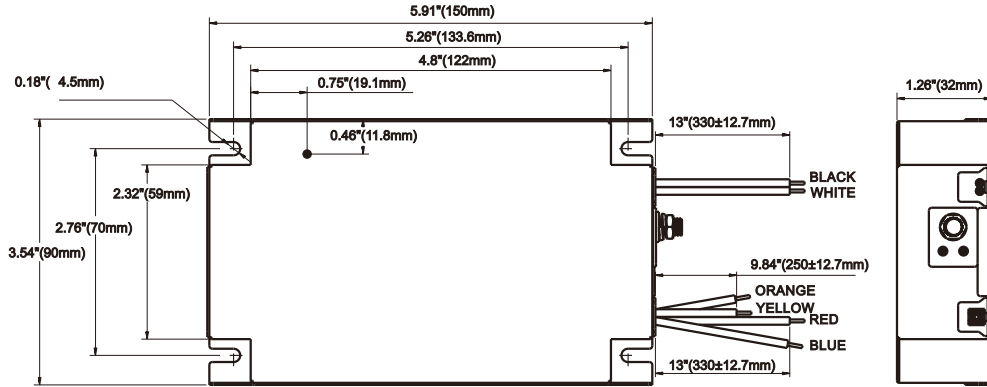
Io vs Tcase(driver)

Figure 11

Io vs Ext.NTC Curve

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Dimmable 100% - 10%,0%

MECHANICAL DATA

5.91"(150mm)
5.26"(133.6mm)
4.8"(122mm)
0.18"(4.5mm)
0.75"(19.1mm)
0.46"(11.8mm)
2.32"(59mm)
2.76"(70mm)
3.54"(90mm)
1.26"(32mm)
13"(330±12.7mm)
BLACK
WHITE
9.84"(250±12.7mm)
ORANGE
YELLOW
RED
BLUE
13"(330±12.7mm)

NOTE :
1.This Driver Must Be Installed By A Licensed Electrician
2.This Driver Must Be Grounded

Tolerance=±0.02"

WARNING
1.To prevent damage to the LED driver, Orange and Yellow R-set / NTC / PRG inputs must never make contact with LED output.
2.FCC WARNING
FCC ID:T1R1UNV150P100C
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1).This device may not cause harmful interference, and
(2).This device must accept any interference received, including interference that may cause undesired operation.
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

INPUT SIDE	LENGTH
WHITE	13"(330mm)
BLACK	13"(330mm)

LED DRIVER
INPUT 120-277VAC
BLK(L)
WHT(N)
ANT
R-SET NTC
ORG
YLW
RED
OUTPUT
BLUE
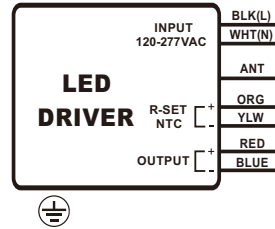
OUTPUT SIDE	LENGTH
RED	13"(330mm)
BLUE	13"(330mm)

Programming SIDE	LENGTH
ORANGE	9.84"(250mm)
YELLOW	9.84"(250mm)

Dimming SIDE	LENGTH
WIRELESS	

TPSB-100:

Only for luminaire manufacturer not for end user.
For detail information on using TPSB-100
Driver Programming Box, please consult
user's manual of TPSB-100.

USB   DMX/DA/PR
Power mA V ℃ %
Program
Read
M + -
FULHAM.