



# T1M1UNV260P-85L

IP20 

## Programmable Constant Current

- Input Voltage: 120V - 277VAC 50/60Hz
- Output Current Range: 860mA - 2600mA
- Output Voltage Range: 10V - 56VDC  $\equiv$
- Output Power: 85W Max.
- 0-10V Dimming
- Dimming Range: 100% -1%, (Dim-to-off)

### General Specifications

|                                                |                                                                                                               |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Input Voltage / Frequency                      | 120V - 277VAC 50/60Hz $\pm$ 10%                                                                               |
| Input Current                                  | 0.89A @120V, 0.44A @240V and 0.38A @277V                                                                      |
| Input Power                                    | 100W                                                                                                          |
| Power Factor                                   | > 0.9 under 120~277Vac input with 80~100% load condition (for all output currents)                            |
| THD                                            | < 20% under 120~277Vac input with 80~100% load condition (for all output currents)                            |
| Efficiency                                     | 85% @120V, 86.5% @277V                                                                                        |
| Inrush Current                                 | 10A @120V                                                                                                     |
| Leakage Current                                | Maximum 0.5mA at 277Vac, 60Hz input                                                                           |
| Open Circuit Voltage                           | 60V                                                                                                           |
| Driver Type                                    | Constant Current                                                                                              |
| Programming Type                               | Wired, TPSB-100A Programmer                                                                                   |
| Output Voltage Range                           | 10VDC - 56VDC $\equiv$                                                                                        |
| Output Current Range                           | 860mA - 2600mA (programmable in 10mA increments)                                                              |
| Output Power                                   | 85W Max.                                                                                                      |
| Aux Output                                     | 12V/200mA Max.                                                                                                |
| Load Regulation                                | $\pm$ 2%                                                                                                      |
| Line Regulation                                | $\pm$ 1%                                                                                                      |
| Current Tolerance                              | $\pm$ 5% at full load condition                                                                               |
| Turn-on Delay Time                             | < 0.75s at full load condition                                                                                |
| Overshoot                                      | < 10% at full load condition                                                                                  |
| No Load Power Consumption                      | < 2W                                                                                                          |
| Ripple & Noise (pk-pk)                         | < 3%                                                                                                          |
| Withstand Voltage                              | I/P - O/P, 2,800Vdc, 2mA                                                                                      |
| Dimming Type                                   | 0-10V Dimming                                                                                                 |
| Dimming Range                                  | 100% -1%, (Dim-to-off)                                                                                        |
| Operating Ambient Temperature Range            | -40 ~ 50°C                                                                                                    |
| Storage Temperature                            | -40 ~ 85°C                                                                                                    |
| Maximum Driver Case Temperature (Tc)           | 90°C                                                                                                          |
| Humidity                                       | 5% to 95%                                                                                                     |
| Driver Output Type / Number of Output Channels | LED Class 2 / 1 Channel                                                                                       |
| Overall Size                                   | 16.89" L x 1.18" W x 1.00" H (429 x 30 x 25.4mm), Mounting 16.02" (407mm)                                     |
| Weight                                         | 1.1lbs (0.5kg) / Unit                                                                                         |
| Case Construction                              | Metal                                                                                                         |
| Input / Output Connector Type                  | I/P: 18 AWG x 2C (30cm) ; O/P: 22AWG x 2C (30cm) ; connector                                                  |
| Safety / Compliance                            | UL8750, Class P, Type HL<br>Suitable for Dry and Damp locations                                               |
| IP Rating                                      | IP20                                                                                                          |
| EMC                                            | FCC, 47CFR Part 15; ANSi C63.4:2009 Class B (Consumer Limit)                                                  |
| Protections                                    | Over Voltage Protection<br>Over Current Protection<br>Short Circuit Protection<br>Over Temperature Protection |
| Service Life                                   | 85,000 hours lifetime @ Tc 60°C                                                                               |
| Warranty                                       | 5 years @ Tc 60°C from the date of manufacture                                                                |



# T1M1UNV260P-85L

IP20 

## Charts

Figure 1

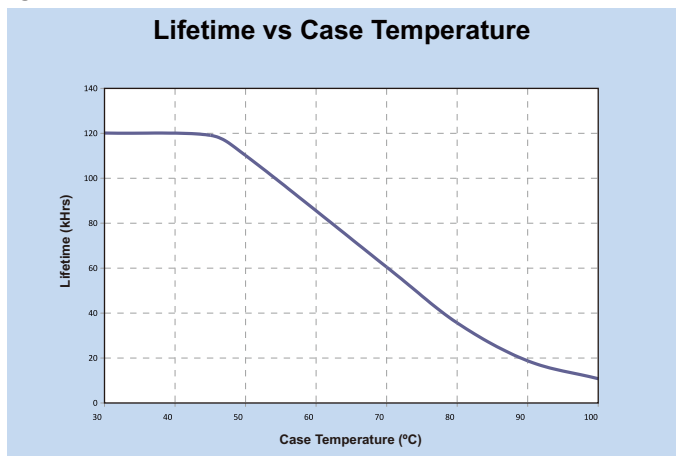


Figure 2

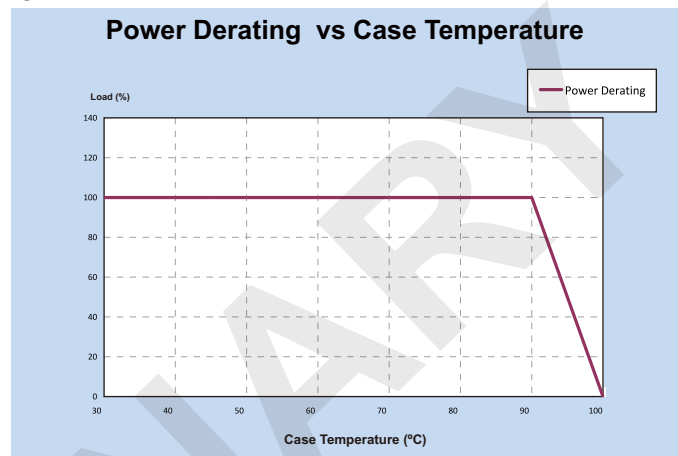


Figure 3

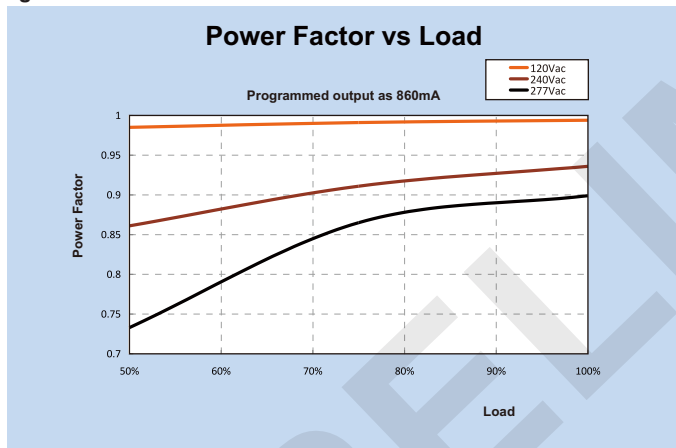


Figure 4

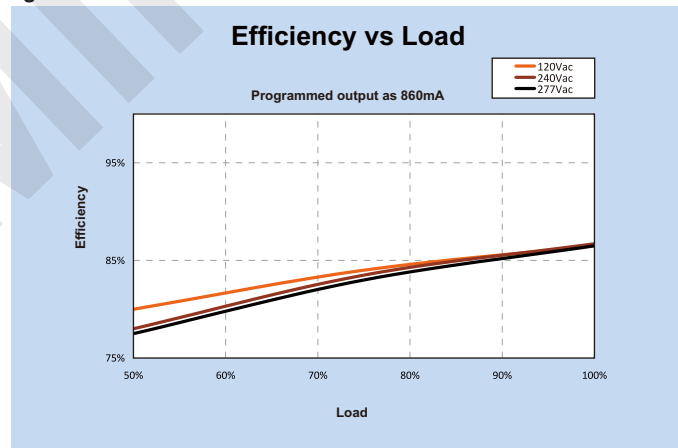


Figure 5

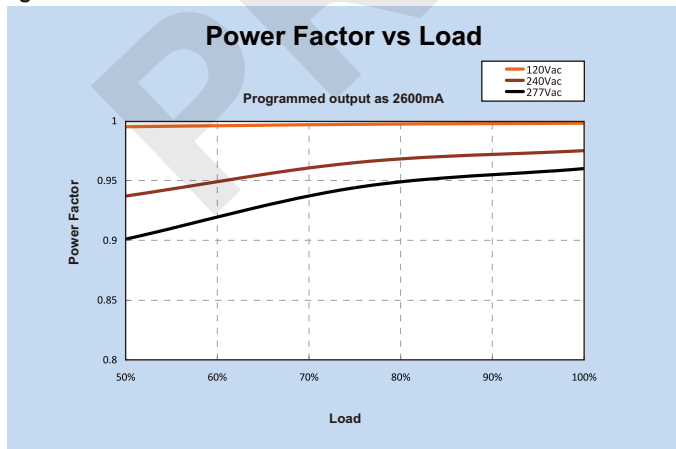
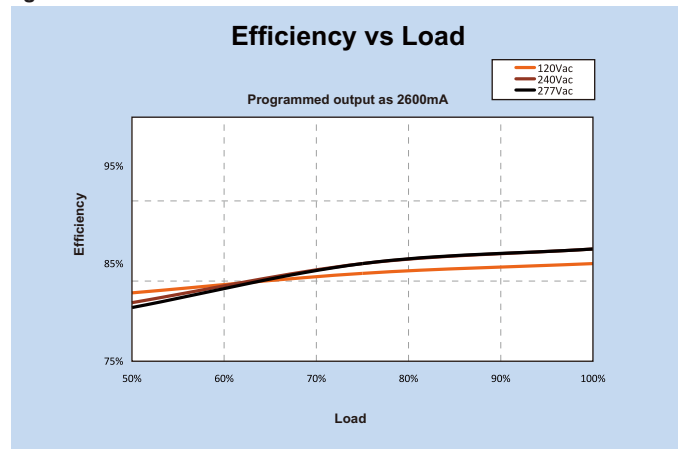


Figure 6



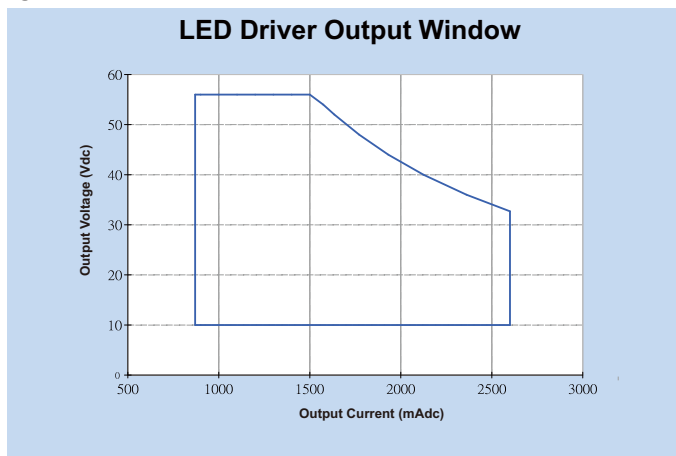


# T1M1UNV260P-85L

IP20 

## Charts

Figure 7

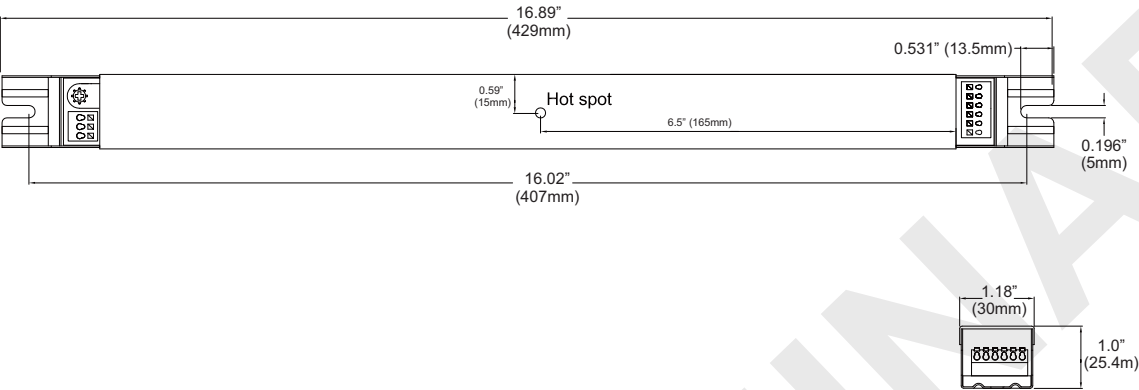




# T1M1UNV260P-85L

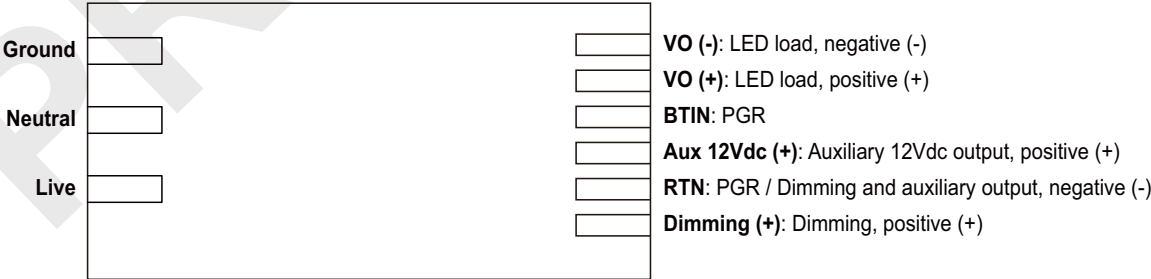
IP20 

## Mechanical Drawings



| Overall Dimensions |                 |
|--------------------|-----------------|
| Length             | 16.89" [429mm]  |
| Width              | 1.18" [30mm]    |
| Height             | 1.0" [25.4mm]   |
| Mounting           | 16.02" [407mm]  |
| Wire Length        |                 |
| Input/ Output      | Terminal Block  |
| 0-10V Dimming      | Terminal Block" |

## Wire Diagram



### NOTES :

- 1) This driver must be installed by a licensed electrician
- 2) This driver must be grounded



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IP20 

## Guidelines

### Grounding

- Driver must be grounded by means of the Driver case.

### Over temperature protection

- The Fulham ThoroLED drivers is protected against thermal overload. If the temperature limit is exceeded, the output current is reduced.

### LED load

- Fulham ThoroLED drivers are designed to drive passive LEDs, -COB's and -LED assemblies .Proper function is not guaranteed when (LED)loads with active components are used.

### Short-circuit protection

- In case of a short circuit the LED driver switches to protection mode. After the removal of the short-circuit the LED driver will recover automatically.

### No-load Operation

- In no-load operation the output voltage will not exceed the specified open circuit output voltage.

### Hot Swapping

- This driver does not support hot swapping of the LEDs.

### Remote Mounting

- Up to 24ft with 18AWG. Contact Fulham for higher remote distance.

### Service life/Lifetime

- Failure Rate Info based upon MTBF modeling: 90% survivals at end of life @  $\leq T_c$  lifetime rating.

### Warranty

- Reference Fulham's limited Warranty: <https://cdn.fulham.com/PDFs/Limited-Warranty.pdf>



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IP20 

## Programing Tool

- 1) To program this LED driver use the Fulham TPSB-100A programmer.
  - 2) Please consult the user manual for instructions on using the TPSB-100A programmer.
- Note: The LED driver can only be programmed in 10mA increments.

## Programming Connection Diagram





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IP20 

## Part Number Matrix

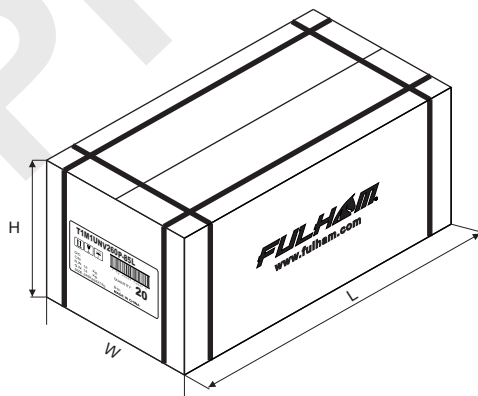
| <u>T</u>     | <u>1</u>              | <u>M</u>             | <u>1</u>              | <u>UNV</u>      | <u>260</u>        | <u>P</u>         | <u>85</u>         | <u>L</u>  |
|--------------|-----------------------|----------------------|-----------------------|-----------------|-------------------|------------------|-------------------|-----------|
| LED Driver   | # of Control Channels | Dimming Control Type | # of Control Channels | Input Voltage   | Output Current    | Characteristic   | Max. Output Power | Case Type |
| T = ThoroLED | 1 = 1 Channel         | M = 0-10V            | 1 = 1 Channel         | UNV = 120V~277V | 260 = 2600mA Max. | P = Programmable | 85 = 85W          | L = Long  |

## Product Image



## Packaging

### Master Carton



| OUTER DIMENSION    |                      |              |
|--------------------|----------------------|--------------|
| L                  | W                    | H            |
| 19.68"(500mm)      | 10.62"(270mm)        | 5.31"(135mm) |
| Net Weight         | Gross Weight         | QUANTITY     |
| 22.04 lbs. (10 kg) | 25.35 lbs. (11.5 kg) | 20pcs.       |