

# LED Power Supply



**UltraMax™** - Indoor Class 2 LED Driver  
(D036MP30X70V2SML 35652)

# Lumination™ LED Luminaires

UltraMax™ Programmable - Indoor Class 2 LED Driver  
D036MP30X70V2SML 35652



Project name \_\_\_\_\_

Date \_\_\_\_\_

Type \_\_\_\_\_

## Performance Summary:

**Description:** 36W 0.3A~0.7A 0-10V Dimmable/Programmable Class 2 PSU  
**Input Voltage:** 120-277Vac +/-10% (UL), 230Vac +/-10% (CE)  
**Input Frequency:** 50/60Hz  
**RoHS Compliant:** Yes

## Product Dimensions:



## Product Features:

### Physical

- Unit must be installed in compliance with the applicable requirements of the end-product standard for enclosure, mounting, spacing, casualty and segregation.
- Enclosure wiring must be rated to 600V & 105°C or higher.

### Performance

- The unit is classified as Class 2 as stipulated in UL1310.
- Dimming circuit is classified as Class 2 as stipulated in UL1310.
- This unit is classified as Class P as stipulated in UL8750 (Section SE)
- Minimum ambient operating temperature: -30°C.
- Maximum allowable casing temperature: 85°C.
- For reliability and failure rate information, contact LED Indoor Electronics Team.
- The unit is UL certified for operation in dry/damp locations.
- The unit is tolerant of extended open circuit and short circuit conditions.
- The unit is compliant to FCC Title 47 Part 15 Class A and EN55015.
- The unit is resistant to surges as per ANSI C62.41 – 2002 and IEC 61000-4-5.

### UL Conditions of Acceptability – E340135

- The unit has been examined to comply with Class 2 Output Criteria
- The unit is only to be used in dry or damp locations
- The metal casing must be connected to **EARTH**.
- The “LED” and “DIM” output circuits must remain isolated from one another to be considered class 2 circuits in the end use.



Output Power (W)	Output Current (A)	Output Voltage (V)	Efficiency at Full Load (277Vac Input)	Max Input Current (A)	Input Power (W)	THD < 20% (@277Vac) (W)	PF < 90% (@277Vac) (W)	Inrush Current (A/mS)	Surge Protection (kV/kA)	Weight (lbs/kg)
36	0.3-0.7 ± 5%	21-51	>89%	0.39A (UL) 0.2A (CE)	42W	7	18	See Page Below	3kV/0.1kA	1.45/660

### Dimming Function

Dimming Method	Isolation	Dimming Range (%)	Current Source
0-10V	Class 2	100% - 5%	0.5mA

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**INPUT** → Measure 5 mm down side  
Voltage 120-277 VAC 50/60 Hz per ILL  
Current 0.36 Amps per ILL  
PF > 0.9

**OUTPUT**  
21-51VDC  
700mA Max Output  
36-Watts

Black (-)  
White (0)

Red (+)  
Blue (-)  
Violet (-)  
Gray (-)

**WARNING / AVERTISSEMENT**

Risk of electrical shock. Disconnect power before servicing or installing product.  
Risque de choc électrique. Couper l'alimentation avant le dépannage ou avant l'installation du produit.

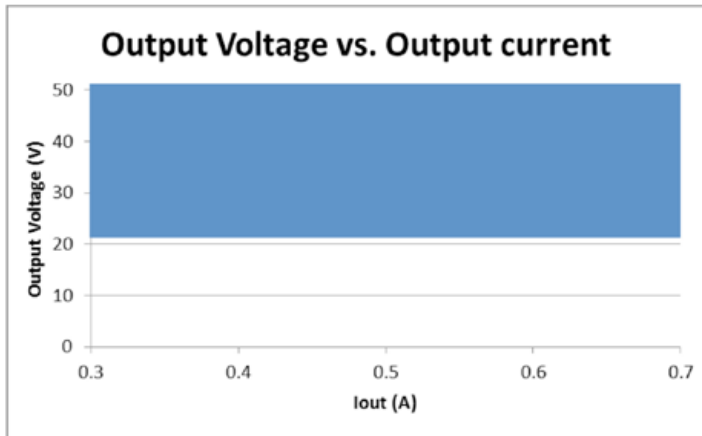
**120-277V**  
0-10V Dimming LED Driver  
Min Start Temp -30°C  
to 85°C Max  
Class 2  
Class P  
Formosa  
FCC Part 15 Non-Consumer  
CAN ICES-005(A)/NMB-005(A)  
High Power Factor  
Sound Rated A  
For Connections Use Wire Rated for at Least 90°C(194°F)  
Install and ground per National Electric Code  
For Dry or Damp Locations

Made in China, Designed & Distributed by General Electric Co.  
GE Lighting  
Nela Park, Cleveland, Ohio 44112

For assistance call:  
**1-888-MYGELED**

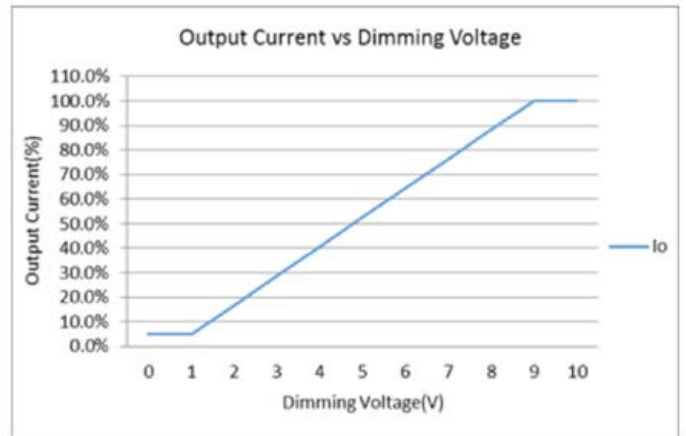
# Technical Information:

Output Voltage/Current Range  
(21V-51V, 0.3A – 0.7A)



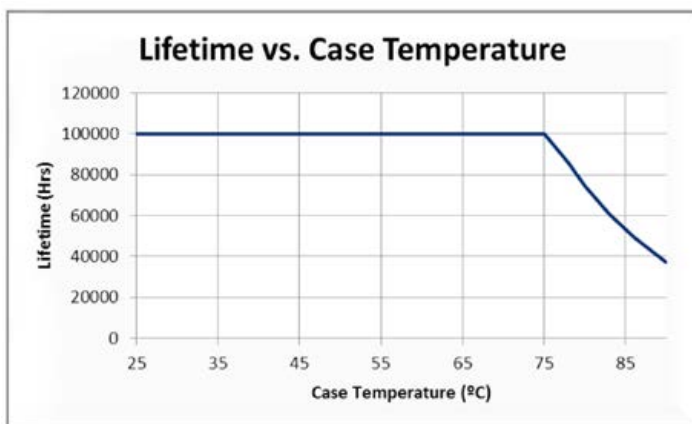
## 0-10V Dimming Curve

Driver sources 0.5mA dimming current. Dimming Level range is from 10% to 100%.

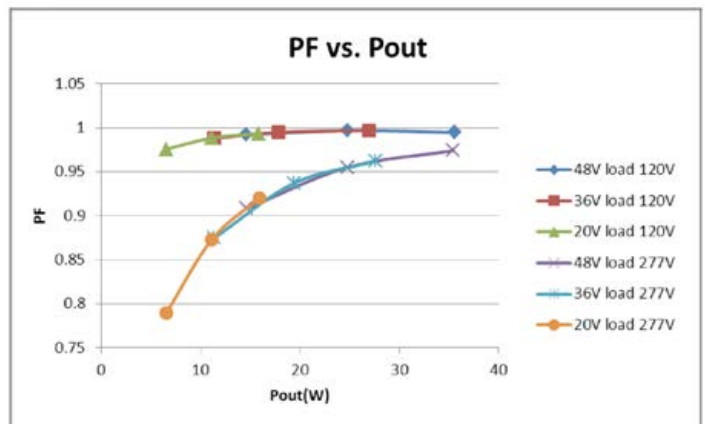


Note: dimming depth 5%-100% programmable, default 10%

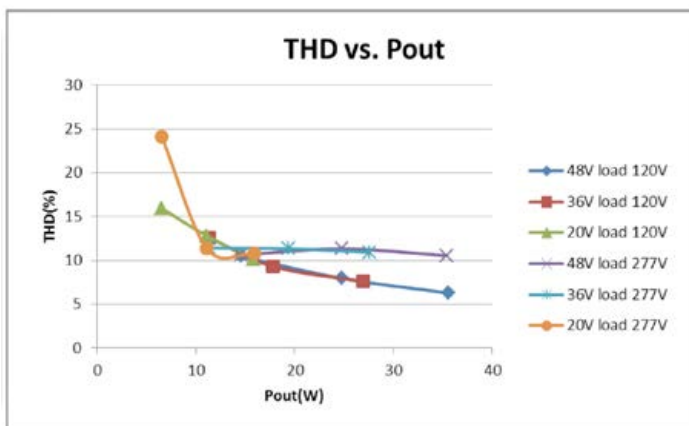
## Lifetime Expectation



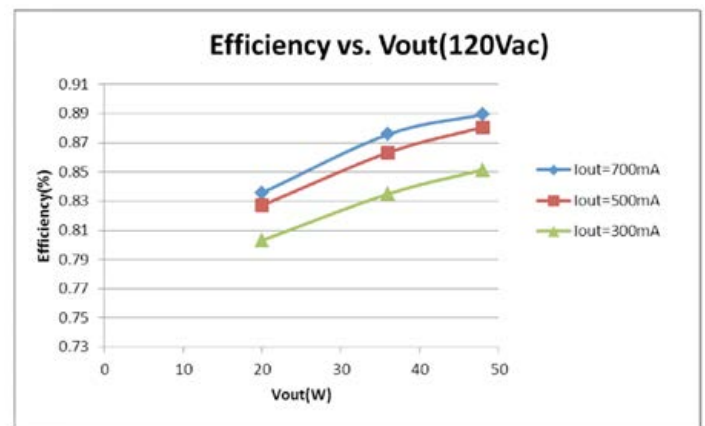
## Power Factor



## Total Harmonics Distortion

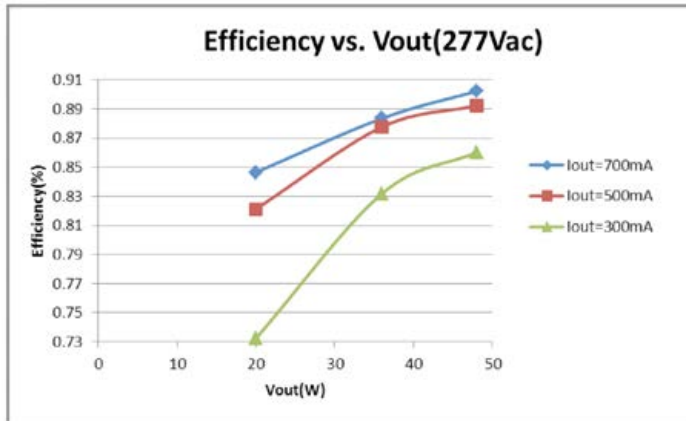


## Power Efficiency

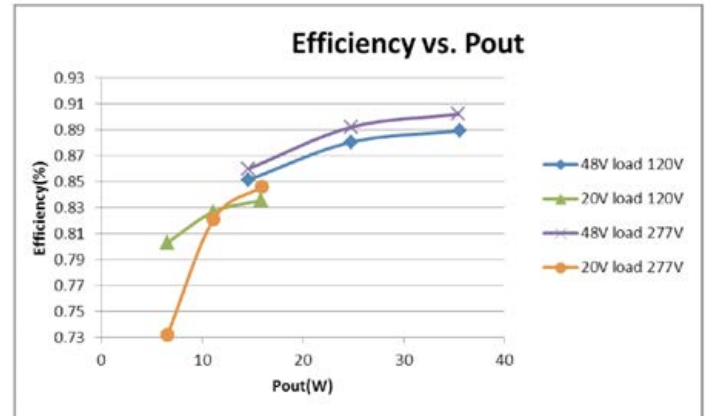


## Technical Information:

### Power Efficiency



### Power Efficiency



### Input Inrush Current

Input Inrush Current		
Input Voltage [V <sub>rms</sub> ]	Peak Current Pulse [A <sub>pk</sub> ]	Pulse Duration (50% of Peak) [us]
120V	22	110
277V	50	135

### Leakage Current

Input Ground Leakage Current		
Input Voltage [V <sub>rms</sub> ]	Leakage Current (mA)	
	S1 ON	S1 OFF
120V	0.100	0.100
240V	0.165	0.165
277V	0.245	0.245

### Current Programming Interface

Firstly set the Max Current to **700mA** and the Min Current to **300mA** in the input box, then put the value to be programmed (between 300mA to 700mA) into the input box for Current to Program, finally click the **Send** button to complete the programming of driver.

