



PYCC-2U1UNV060S-30C

Selectable Constant Current LED Driver, 0-10V & Phase@120V Dimming

- Input Voltage: 120V - 277V, 50/60Hz
 - Dimming Types: 0-10V & Phase@120V
 - Dimming Range: 100% - 10%
 - Class 2 LED Driver
 - cULus Listed, Class P
 - Isolated 0-10V from Input and Output
 - Selectable Output Current: 450 / 500 / 550 / 600mA
- Output Voltage: 30-42VDC

General Specifications

| | |
|-------------------------------------|--|
| Input Voltage / Frequency | 120V - 277VAC 50/60Hz |
| Input Current | 0.25A Max. |
| Input Power | 31W Max. |
| Input Power Factor | >0.9 |
| THD | <20% |
| Driver Type | Current Selectable |
| Output Voltage Range | 30VDC - 42VDC--- |
| Selectable Output Current | 450mA, 500mA, 550mA, 600mA (±7%) remark:600±7%means at least 90% load , others(no specified range), the tolerance of lout is ±10% |
| Output Power | 25.2W Max. |
| Efficiency@Full load | >84%@120VAC; >84%@277VAC |
| Output Type | Constant Current |
| Inrush Current | 30A @277VAC |
| Max. Leakage Current | 0.75mA |
| Total Over All Ripple | <30% |
| Flicker Percentage | <30% |
| Dimming Type | 0-10V & Phase@120V (see dimmer list) |
| Dimming Range | 100% - 10% |
| Dimming isolation | Yes |
| Storage Temperature Range | -40°F ~ 131°F (-40°C ~ 55°C) |
| Operating Ambient Temperature Range | -22°F ~ 104°F (-30°C ~ 40°C) |
| Max. Driver Case Temperature | 194°F (90°C) |
| Start Up Time | 0.7s @ Full load |
| Number of Output Channels | 1 |
| Overall Size | 3.4"x 1.9"x 1.1" (86.4mm x 47.6"mm x 27.8mm) |
| Weight | 0.35lbs (160g) |
| Wire Type / Length | Input: Black/White 18AWG 160mm/6.3" Output: Red/Blue 20AWG 150mm/ 5.9"; Dimming: Purple/Pink 22AWG 300mm/ 11.8" |
| Safety / Compliance | cULus Listed, Class P; LED Class 2 CAN/CSA-C22.2 No. 250.13 FCC Title 47 Part 15A |
| IP Rating | Dry and Damp locations, IP20 |
| Operating Humidity | 10-90% RH Non-condensing |
| Input Surge Protection | C62.41 RingWave 2.5kV |
| Protections | Over-Voltage Protection Short-Circuit Protection |
| Sound Rating | A |
| Service Life | 50,000Hrs @Max Load, 75°C Tc |
| Warranty | 5 years @ Tc 75°C from the date of manufacture |

General Wiring Diagram



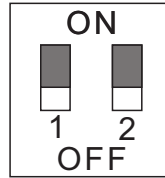
Note: 0-10V and Phase dimming should not use together.



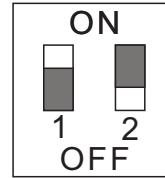
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Output Current Adjustable

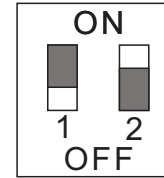
| Switch 1 | Switch 2 | I _{out} |
|----------|----------|------------------|
| OFF | OFF | 600mA |
| ON | OFF | 550mA |
| OFF | ON | 500mA |
| ON | ON | 450mA |



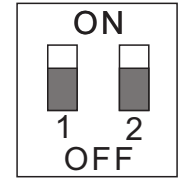
600mA



550mA

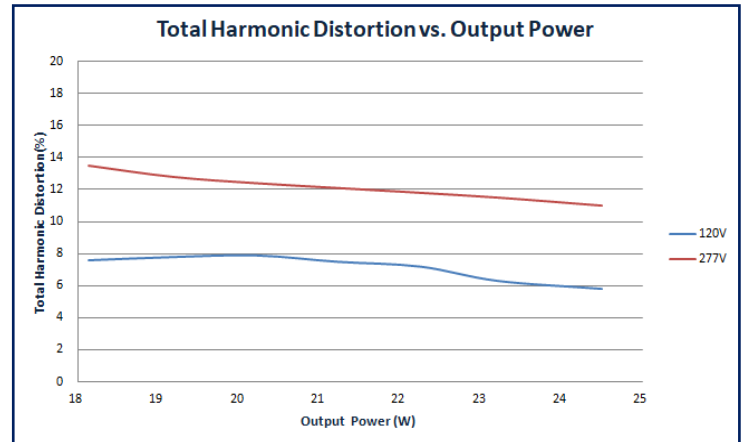
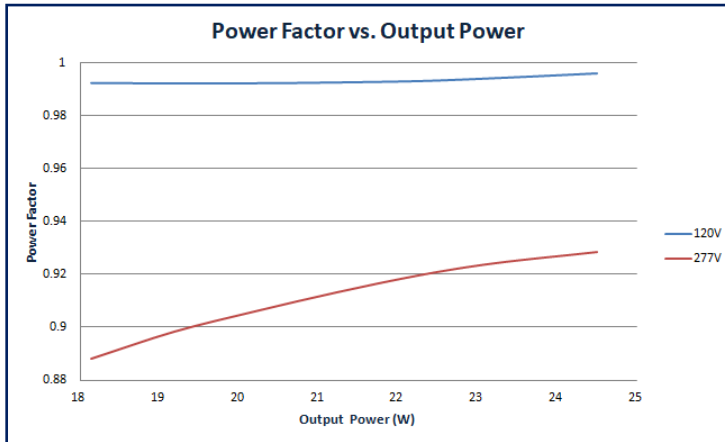
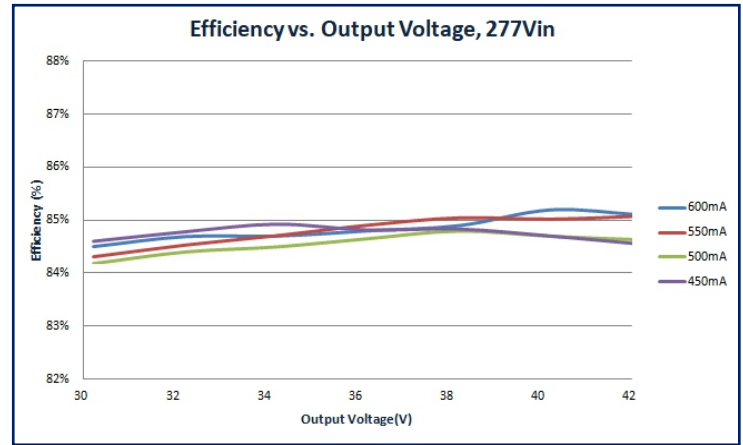
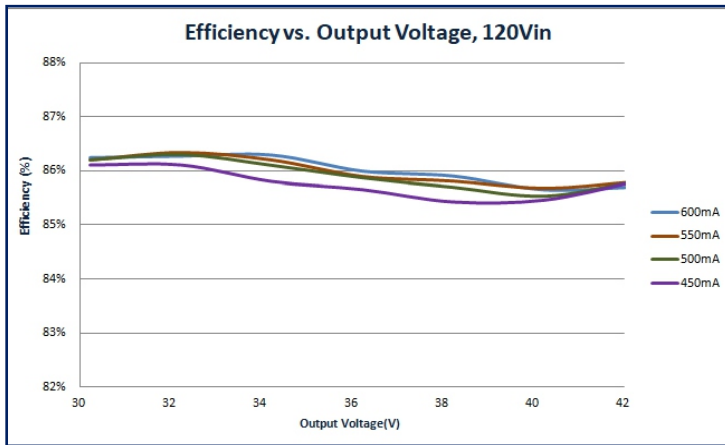


500mA



450mA

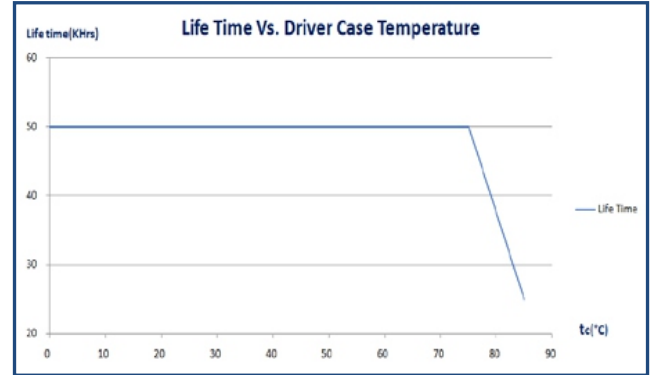
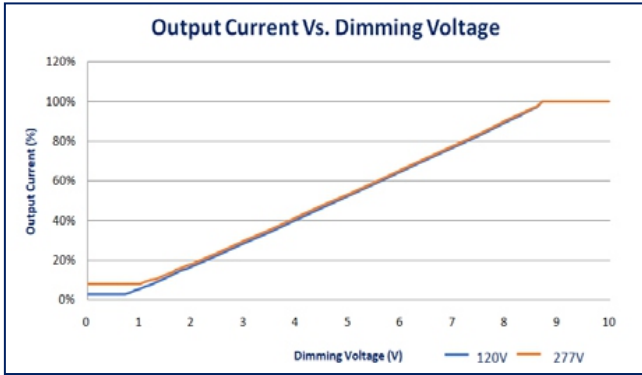
Typical Characteristics Curve





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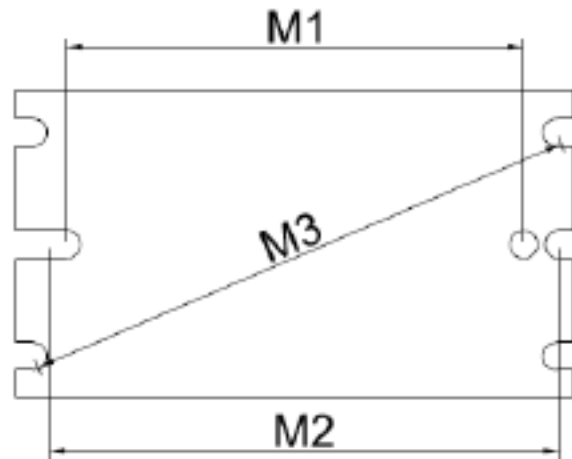
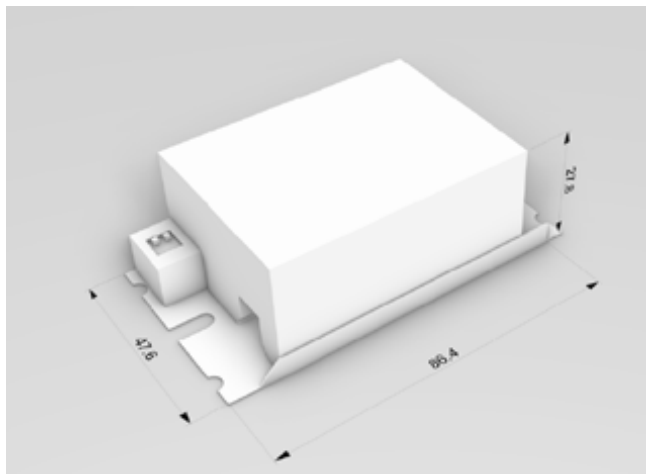
Typical Characteristics Curve



Compatible 120V Phase Dimmer List

| Manufacturer | Part Number of Manufacturer | Type of Dimmer | Manufacturer | Part Number of Manufacturer | Type of Dimmer |
|--------------|-----------------------------|----------------|--------------|-----------------------------|----------------|
| LUTRON | SCL-153P | TRIAC | | | |
| LUTRON | DVCL-153P | TRIAC | | | |
| LUTRON | SELV-300P | ELV | | | |
| LUTRON | SELV-303P | ELV | | | |
| LUTRON | DVELV-300P | ELV | | | |

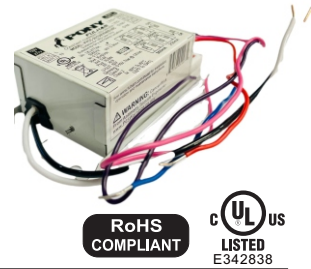
Mechanical Drawings



| Overall Dimensions | |
|--------------------|--------------|
| Length | 3.4"(86.4mm) |
| Width | 1.9"(47.6mm) |
| Height | 1.1"(27.8mm) |

| Mounting Size | |
|---------------|---------------|
| M1 | 2.8"(70.9mm) |
| M2 | 3.24"(82.2mm) |
| M3 | 3.5"(88.2mm) |

| Wire Length | |
|-------------|--------------|
| AC Input | 6.3"(160mm) |
| LED Output | 5.9"(150mm) |
| 0-10V Dim | 11.8"(300mm) |



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Guidelines

Grounding

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

Over temperature protection

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

LED load

- The Fulham Pony LED 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 26ft 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>

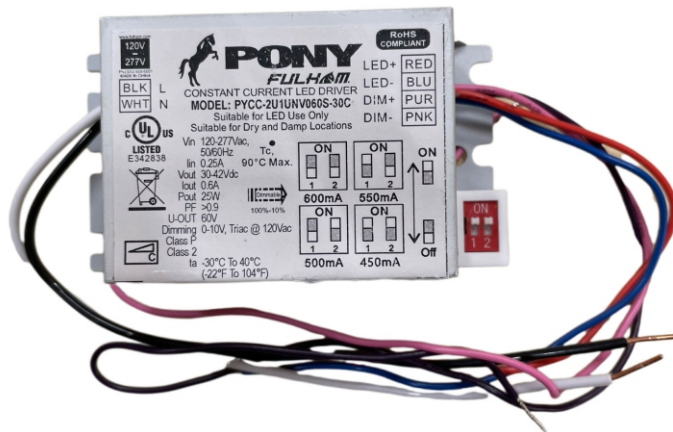
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Part Number Matrix

PYCC2U1UNV060S30C

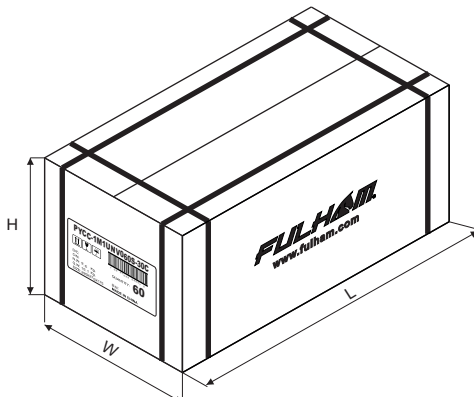
| LED Driver | Output Type | # of Control | Type Of Control | # of Output Channels | Input Voltage | Output Current | Max. Output Power | Case Type |
|---------------|---------------------|----------------|-------------------|----------------------|-----------------|-------------------------------------|-------------------|-------------|
| PY = Pony LED | CC=Constant Current | 2 = 2 Controls | U = 0-10V & Phase | 1 = 1 Channel | UNV = 120V~277V | 060S = 600/550/500/450mA Selectable | 30 = 30W | C = Compact |

Product Image



Packaging

Master Carton



| OUTER DIMENSION | | |
|-----------------------|------------------------|--------------|
| L | W | H |
| 11.42"(290mm) | 10.63"(270mm) | 6.89"(175mm) |
| Net Weight | Gross Weight | QUANTITY |
| 21.16lbs. (9.6 kg) | 22.27lbs. (10.1 kg) | 60pcs. |