ANP08 Series -277V

Single Output Channel, UL Certified **Dimmable Constant Current LED Driver**





Features and Applications:

- One 8W Constant Current DC Output
- Options for standard LED current: 350 / 700 mA
- · High Output Efficiency Design
- Active Power Factor Correction
- Built For Outdoor Wet, Damp or Indoor Dry Applications
- Silicone Encapsulated For Wet Locations
- · Outside case sealed per IP65 Rated
- Over-Current and Over-Voltage Protection with Auto-Recovery
- 0-10V and DALI 2 Dimming Control

All specifications are typical at nominal input, full load, at 25°C unless otherwise stated.

Electrical Specifications

INPUT

Input Voltage Range 90 - 305Vac (Rated 100 - 277Vac)

Input Frequency 47 - 63Hz

Input Current max. 0.2A@120Vac/60Hz,full load

Inrush Current 30A @230Vac input/50Hz,full load,

cold start

Leakage Current 0.25mA max.

Power Factor ≥0.9 at 50% to full load, over entire

input range

THD <20% @ 50% load, 277Vac

OUTPUT

Output Current Regulation

Over Voltage Protection <130% nominal voltage

Short Circuit Protection Shutdown & Auto Recovery

OTP Protection 1-Stage Protection

Start-up Time < 1 sec. under typ. Tambient

< 3 sec. when Tambient < 20°C

Dimming Control 0 - 10Vdc (10V for max. output)

DALI 2 Control

Safety Certifications

UL UL8750, UL1310, E-File#: E328880



General Specifications

Weight **TBD**

2.76" x 1.74" x 1" Dimension (including

mounting tab) (70mm x 44mm x 25.4mm)

Warranty Info / MTBF Contact Amperor for detailed

warranty and MTBF information

Environmental Specifications

Max. Operating Temp. 90°C @ Tcase

Min. Operating Temp. -30°C @ Tambient

Thermal Protection Output Shutdown @ Tcase=90°C

Storage Temp. -40°C to +85°C (Tambient)

Relative Humidity 5% to 95% (non-Condensing)

Enclosure Outside case sealed per IP65

Cooling Conduction

RoHS Compliant



Conducted Emissions EN55015,FCC part 15 level B Radiated Emissions EN55015,FCC part 15 level B

Surge Protection L-N: 0.75KV, L/N-PE: 1.5KV

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RoHS

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ANP08-XXXP1-277-U Model vs. Output Specificationson

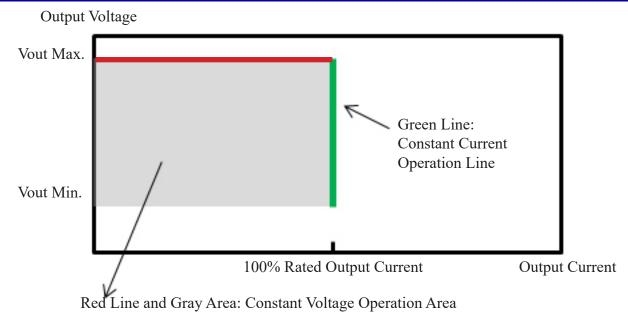
Table1: Model vs. Output Specifications

Model	Max. Output Voltage (V)	Rated Output Current (mA)	Output Voltage Range (V)	Max. Output Power (W)	Efficiency (Typical.)
ANP08-24P1-277-CD-2	24	350	9 ~ 24	8	75%
ANP08-24P1-277-CD-3	19	350	4 ~ 19	8	75%
ANP08-12P1-277-CD-2	12	700	6.5 ~ 12	8	72%
ANP08-24P1-277-DA-2	24	350	9 ~ 24	8	68%
ANP08-24P1-277-DA-3	19	350	4 ~ 19	8	68%
ANP08-12P1-277-DA-2	12	700	6.5 ~ 12	8	68%

Notes:

- 1. The DC output channel will automatically shut down and auto-recover after an over-current limit (OCP) trip event.
- 2. Order the built-in dimming function by replacing -U in the model name with:
- -CD: with Dimming Function built-in, Blank: no Dimming Function built-in. -DA: with DALI 2 Control
- 3. Model Replacement: ANP08-24P1-277-CD-2 to replace ANP08-24P1-277-CD, ANP08-24P1-277-CD-3 to replace ANP08-24P1-277-CD-1, ANP08-12P1-277-CD-2 to replace ANP08-12P1-277-CD

Constant Current / Constant Voltage Operation



- 1. If the current draw from the load is equal to the rated output current of the driver, the driver will operate in CC mode. (on the **Green Line** above)
- 2. If the current draw from the load is less than the rated output current of the driver, the driver will operate in CV mode. When working with the CV mode LED light tube / module / strip, the driver operates on the **Red Line** above. Please contact Amperor for detailed explanation.

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ANP08-XXXP1-277-U Mechanical Drawing

