

# 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	5%
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
Dimension (including mounting tab)	2.76" x 1.74" x 1" (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 

### EMC

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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## ANP08-XXXP1-277-U Model vs. Output Specifications

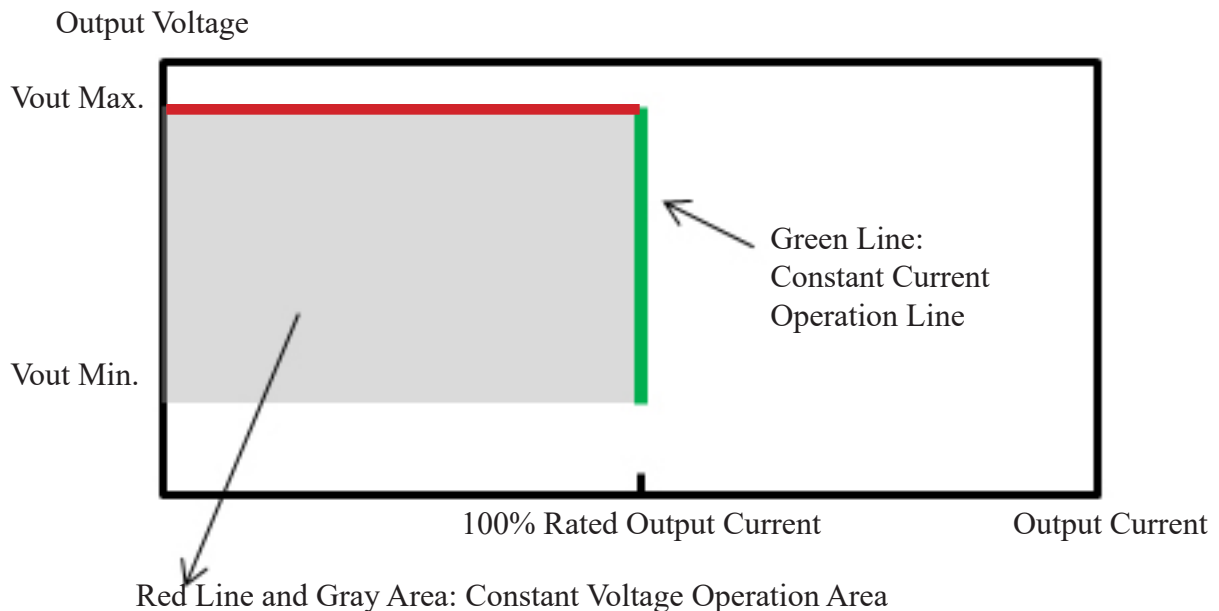
Table1: Model vs. Output Specifications

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.

