

ANP220 Series -277V

Single Output Channel, UL Certified
Dimmable Constant Current LED Driver



Features and Applications:

- One 220W Constant Current DC Output
- Output Current Options: 700 / 1050 / 1400 / 1750 / 2100mA
- High Output Efficiency Design (Typ. 88%)
- Active Power Factor Correction
- Built For Outdoor Wet, Damp or Indoor Dry Applications
- Silicone Encapsulated For Wet Locations
- Rugged & Splash Proof Aluminum Case - IP67 Rated
- Over-Current and Over-Voltage Protection with Auto-Recovery
- 0-10V 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. 2.5A@120Vac/60Hz,full load
Inrush Current	65A @230Vac input/50Hz,full load, cold start
Leakage Current	0.5mA max.
Power Factor	≥0.9 at 40% to full load, over entire input range

THD <20% @ 40% to full 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	< 2 sec.
Dimming Control	0 - 10Vdc (10V for max. output)

General Specifications

Weight	TBD
Dimension (w/o mounting tab)	9.41" x 2.7" x 1.6" (239mm x 67.5mm x 40mm)
Warranty Info / MTBF	Contact Amperor for detailed warranty and MTBF information

Environmental Specifications

Max. Operating Temp.	85°C @ Tcase (See Page 3 for Tcase Location)
Min. Operating Temp.	-40°C @ Tambient
Thermal Protection	Output Drops to 15% @ OTP
Storage Temp.	-40°C to +90°C (Tambient)
Relative Humidity	5% to 95% (non-Condensing)
Enclosure	Outside case sealed per IP67
Cooling	Conduction
RoHS	Compliant



Safety Certifications

UL UL8750, UL1012 (Pending Approval)



EMC

Conducted Emissions	EN55015,FCC part 15 level B
Radiated Emissions	EN55015,FCC part 15 level B
Surge Protection	EN61000-4-5, Level 3 L-N: 6KV, L/N-PE: 10KV

Amperor Inc.
11320 Neeshaw Dr.
Houston, TX 77065
1-281-807-3320
<http://www.amperor.com>

Amperor Electronics (SZ) Inc.
No. 1, Venture Road (Huangyuan #2 Bldg.)
Nanchang Community, Xixian Street, Baoan District
Shenzhen, Guang Dong 518126, China
86-755-2747-5316

Intertek Corp., an Amperor Company
4th Fl, Far East World Center
81 Bldg D, Sec 1, XinTaiWu Rd.
Xizhi, New Taipei City, 221, Taiwan, R.O.C.
886-2-2698-2239

ANP220 Series -277V

Single Output Channel, UL Certified
Dimmable Constant Current LED Driver



Order Information

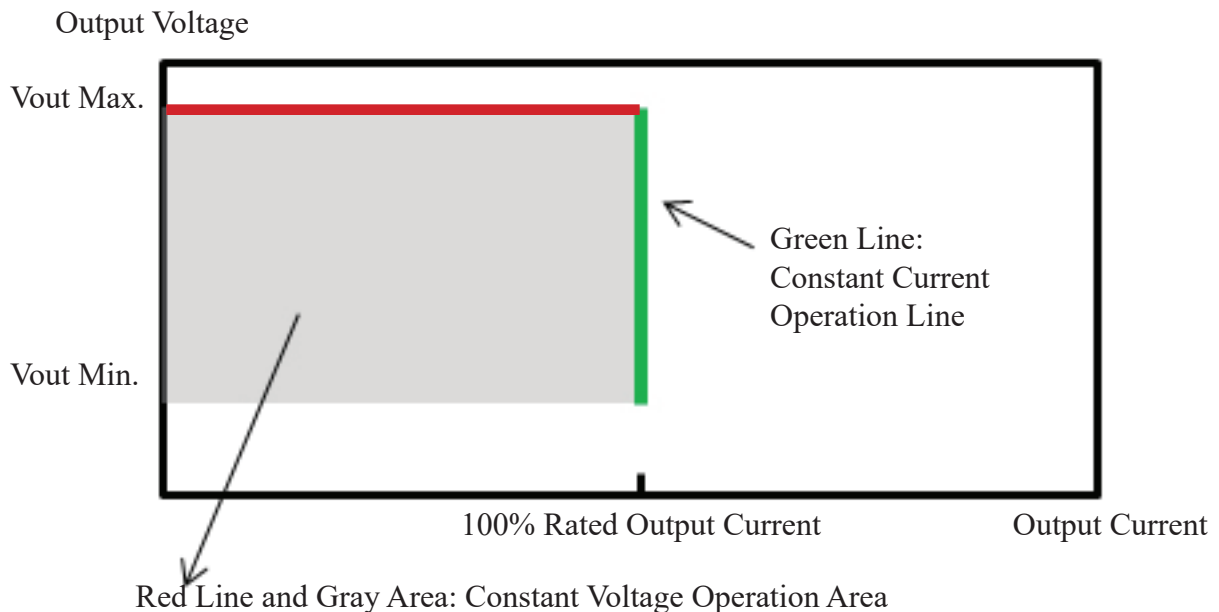
Table1: Model vs. Output Specifications

Model	Max. Output Voltage (V)	Rated Output Current (mA)	Output Voltage Range (V)	Max. Output Power (W)	Min. Efficiency (120Vac input 100% load)	Min. Efficiency (277Vac input 100% load)
ANP220-314P1-277	314	700	210 ~ 315	220	88.00%	89.00%
ANP220-210P1-277	210	1050	105 ~ 210	220	88.00%	89.00%
ANP220-157P1-277	157	1400	100 ~ 157	220	88.00%	89.00%
ANP220-126P1-277	126	1750	80 ~ 126	220	88.00%	89.00%
ANP220-105P1-277	105	2100	60 ~ 105	220	88.00%	89.00%

Notes:

1. The DC output channel will automatically shut down and auto-recover after an over-current limit (OCP) trip event.

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.

ANP220 Series -277V

Single Output Channel, UL Certified
Dimmable Constant Current LED Driver



Mechanical Drawing

- NOTE:
1. AC input cable: SJTW 18AWG *3C [White(L), Black(N), green(G)];
 2. DC output cable: SJTW 18AWG *2C [Red(+), Black(-)];
 3. Dimming cable / Temperature sensor cable: UL2517 22AWG *4C ;
Dimming cable [Violet(+), Gray(-)];
Temperature sensor cable (Brown, Blue);
 4. Tcase is CASE's Max temperature.
 5. Other ALL TOLERANCE: ± 0.5 ;
 6. UNIT:mm

