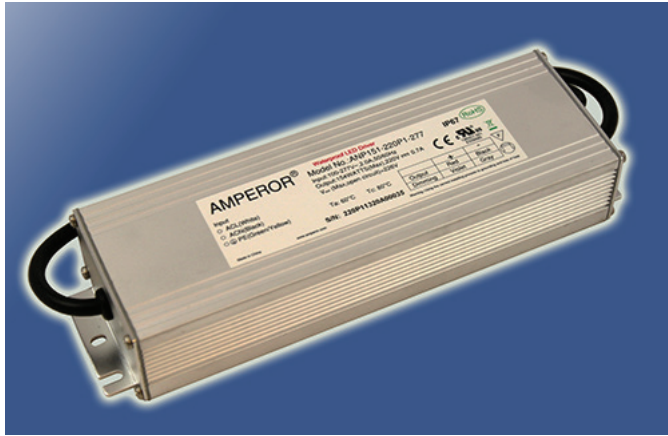


ANP151 Series -277V

Single Output Channel, UL Certified
Dimmable Constant Current LED Driver



Features and Applications:

- One 150W Constant Current DC Output
- Options for standard LED current: 350 / 700 / 1000 / 1400 mA
- High Output Efficiency Design (Typ. > 90%)
- 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 Dimmable Output
- Optional 12Vaux Output
- Optional Thermal Sensing Port Available

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. 1.8A@120Vac/60Hz,full load
Inrush Current	100A @230Vac input/60Hz,full load, cold start
Leakage Current	0.7mA max.
Power Factor	≥0.9 at 60% to full load, over entire input range
THD	<20% @ 80% load, 277Vac

OUTPUT

Output Current Regulation	5%
Over Voltage Protection	<130% nominal voltage
Short Circuit Protection	Shutdown & Auto Recovery
OTP Protection	2-Stage Protection
Start-up Time	< 3 sec.
Dimming Control	0 - 10Vdc (10V for max. output)
Thermal Sensing Port	Use with 110C thermal switch Opened - turn off the driver Shorted together - bypass

Safety Certifications


UL UL8750, UL879 (included in SAM), UL1012
(E File#: E328880, E307120)



General Specifications

Weight	1.7 Kg (3.74lbs.) max.
Dimension (w/o mounting tab)	7.68" x 2.54" x 1.50" (195mm x 64.5mm x 38mm)
Warranty Info / MTBF	Contact Amperor for detailed warranty and MTBF information

Environmental Specifications

Max. Operating Temp.	85°C @ Tcase (See Page 4 for Tcase Location)
Min. Operating Temp.	-30°C @ Tambient
Thermal Protection (See Page 3 for details)	Output Drops to 50% @ 1st OTP Output shutdown @ 2nd OTP
Storage Temp.	-40°C to +85°C
Relative Humidity	5% to 95% (non-Condensing)
Enclosure	Outside case sealed per IP67
Cooling	Conduction
RoHS	Compliant 

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: 2KV, L/N-PE: 4KV

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Order Information

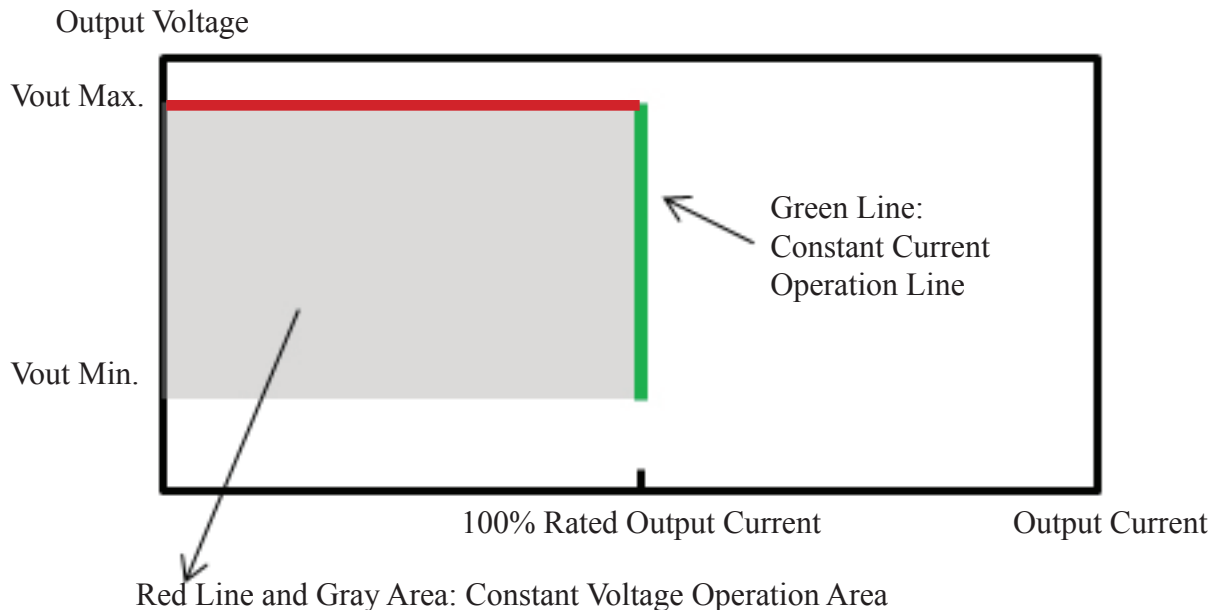
Table1: Model vs. Output Specifications

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)
ANP151-440P1-277	440	350	220 ~ 440	154	89.00%	91.00%
ANP151-220P1-277	220	700	110 ~ 220	154	89.00%	91.00%
ANP151-154P1-277	154	1000	80 ~ 154	154	89.00%	91.00%
ANP151-110P1-277	110	1400	70 ~ 110	154	89.00%	91.00%
ANP151-75P1-277	75	2050	50 ~ 75	154	89.00%	91.00%

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



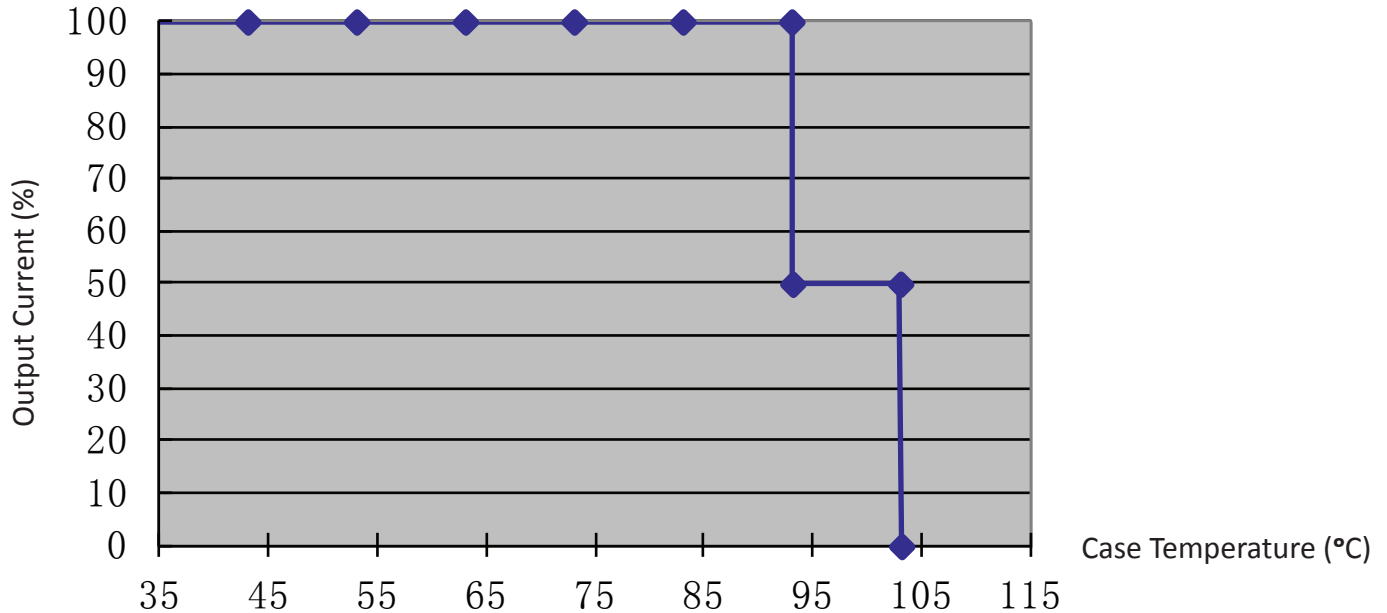
1. If the current draw from the load is equal to the rated output current of the driver, the driver will operate in CC mode. (on the **Green Line** above)
2. If the current draw from the load is less than the rated output current of the driver, the driver will operate in CV mode. When working with the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

ANP151 Series -277V

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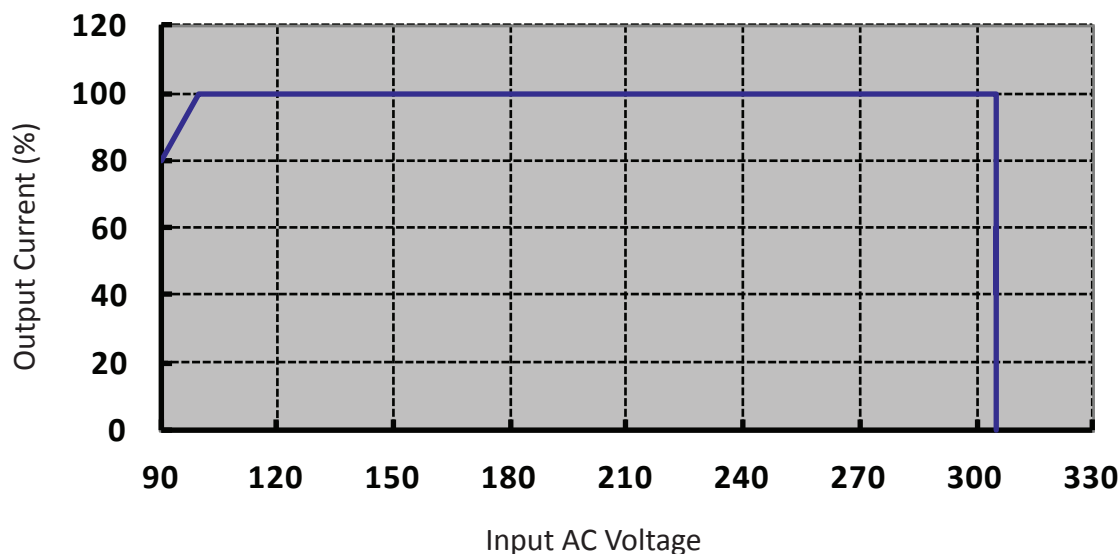
OTP (Over Temperature Protection) Operation



Note: The min. temperature the driver can operate in is -30°C (Ambient Temperature)

Derating Curve - Output Current vs. Input Voltage

Load (%) vs. Input AC Voltage

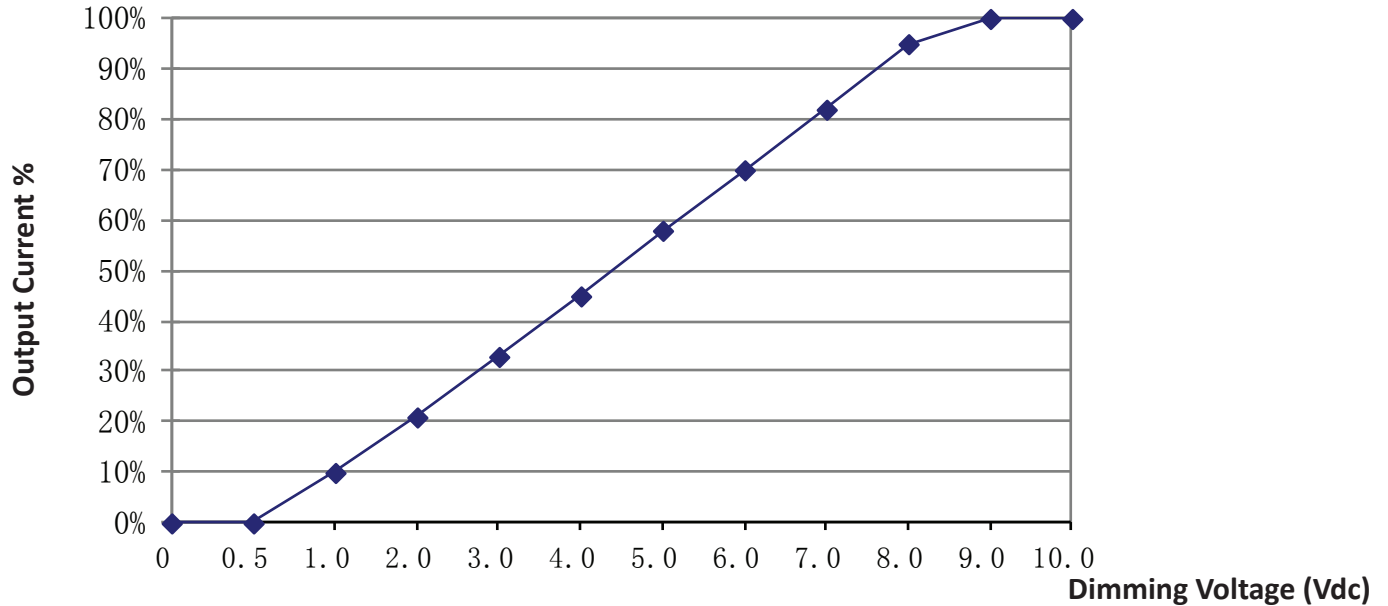


ANP151 Series -277V

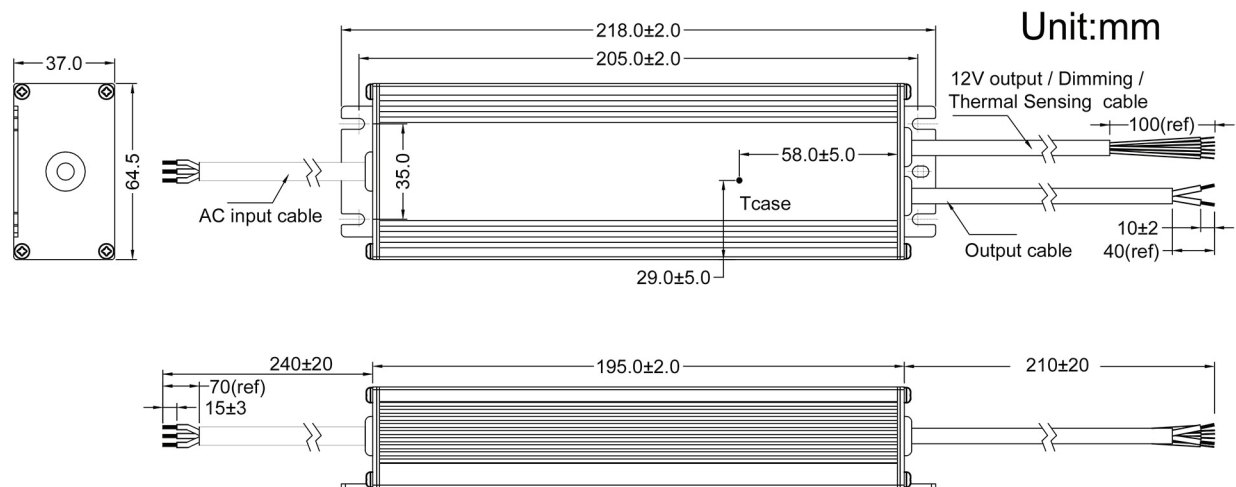
Single Output Channel, UL Certified
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Dimming Curve



Mechanical Drawing



NOTE:

1. AC input cable: UL2517 18AWG *3C [White(L),Black(N),yellow/green(G)];
2. DC output cable: UL2517 18AWG *2C [Red(+),Black(-)];
3. 12Vdc output cable/Dimming and Thermal Sensing cable :UL2517 24AWG *6C
Dimming cable: Violet(+),Gray(-); 12Vdc output cable:Brown(+),Blue(-);
Thermal Sensing cable:White/Black,Black/White.
4. Other ALL TOLERANCE: ±0.5