

# ANP130 Series -277V

Constant Current, Single Output  
Class 2 LED Power Supply



## Features and Applications:

- One Single Class 2 DC Output
- Highly Efficient Switching-Mode Technology
- Active PFC (Power Factor Corrected)
- Approved for Outdoor Wet, Damp or Indoor Dry Applications
- Silicone Encapsulated and Epoxy Filled for Wet Location Usage (When Used with Water-Tight Fittings)
- Built-in EMI Filter For Low Noise
- Rugged and Splash Proof Aluminum Case
- Over-Current and Over-Voltage Protection With Auto-Recovery
- Multiple Output V & A Options (See Page 2 for Details)

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

### Electrical Specifications

#### INPUT

Rated Input Voltage Range	100 - 277Vac
Frequency	47 - 63Hz
Input Current	max. 1.3A@115Vac/60Hz,full load
Inrush Current	80A @230Vac input/60Hz,full load
Efficiency	See Table 1
Power Factor	≥0.9 @ full load and the entire input voltage range

#### OUTPUT

Output Options	See Table 1
Leakage Current	0.25mA@110Vac, 0.5mA@277Vac
Low Ripple & Noise Voltage	< 1% V output
Over Voltage Protection	<130% nominal voltage
Short Circuit Protection	Shutdown & Auto Recovery.
OTP Protection	85°C ± 5°C @ Ambient Temp.
Start-up time	< 2 sec.

### Safety Certifications


UL UL8750, UL1310



### General Specifications

Isolation Voltage	3000V AC, AC ~ DC
Weight	1.5 kg (3.3lbs.)
Warranty Info	3 year
MTBF	> 100K Hours at 25° C
Robust Design	Guaranteed Full Load at 70° C Derate to 50% at 80° C

### Environmental Specifications

Operating Temp.	-30°C to +70°C full load
Derating Temp.	50% at +80°C
Storage Temp.	-40°C to +85°C
Relative Humidity	5% to 95% ( non-Condensing )
Ingress Protection	IP66
Cooling	Conduction
RoHS	Compliant 

### EMC

Conducted Emissions	EN55022,FCC part 15 level B
Radiated Emissions	EN55022,FCC part 15 level B

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## Order Information

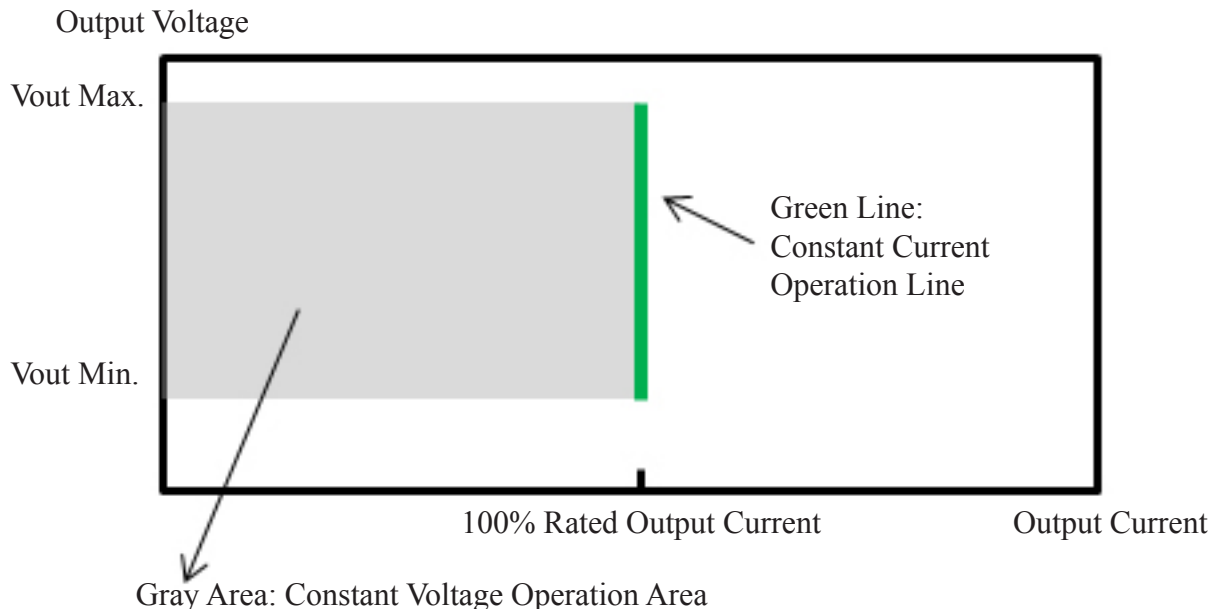
**Table1: Model vs. Output Specifications**

Model	Output Voltage (V)	Output Current (A)	Output Voltage Range (V)	Max. Output Power (W)	Min. Efficiency (115Vac input 50% load)	Min. Efficiency (115Vac input 100% load)
ANP130-12P1-277	12	5	6 ~ 12	60	84.00%	86.00%
ANP130-24P1-277	24	4	13 ~ 24	96	86.00%	90.00%
ANP130-30P1-277	30	3.2	18 ~ 30	96	87.00%	90.00%
ANP130-36P1-277	36	3	25 ~ 36	96	87.50%	90.00%
ANP130-48P1-277	48	2	36 ~ 48	96	88.00%	90.00%

### 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



Note: The Constant Current LED driver is designed to work in the constant current mode (on the green line above). Depending on the LED loads connected to the driver, it can output the regulated rated current with a voltage sitting in between the Vout max and Vout min. However, the driver will switch to constant voltage mode if the current draw from the LED loads is lower than the rated current of the driver. Please contact Amperor for detailed explanations.

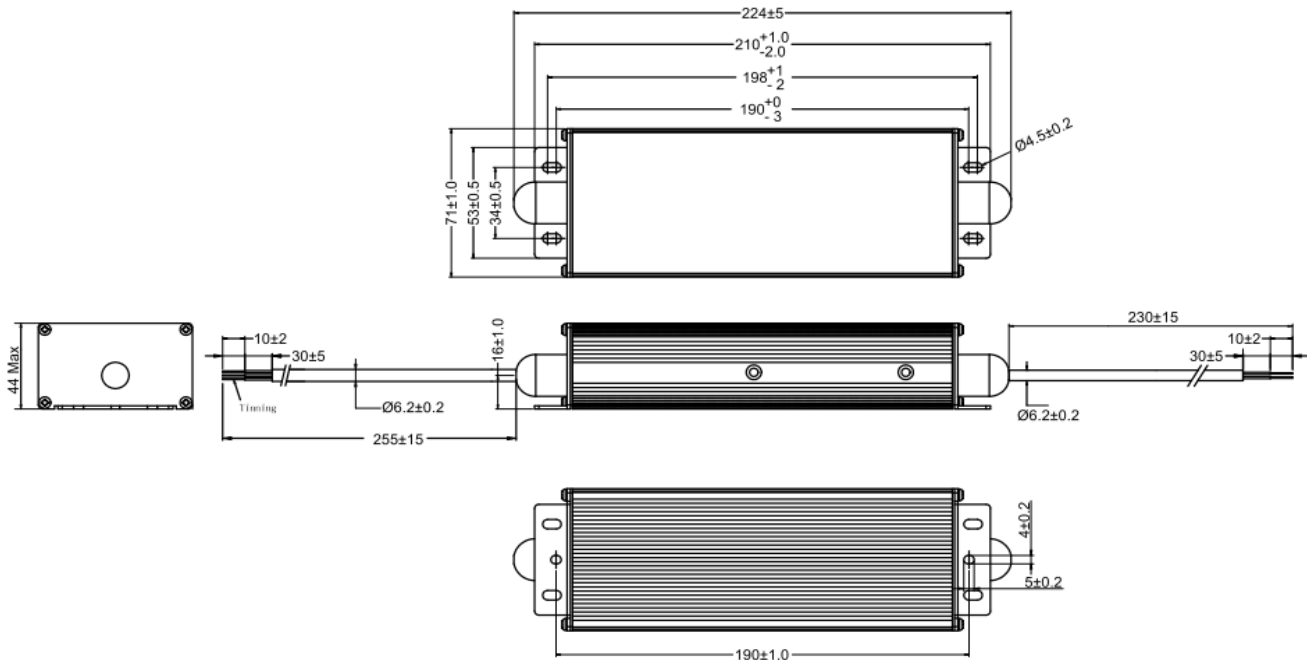
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## Mechanical Information

Unit: mm



### NOTE:

1. Input cable: UL2517 18AWG\*3C, no Pb PVC, 105°C 300V, Jacket color: BLACK, Insulation color: white(L), black(N), yellow/green(GND);
2. Output cable: UL2517 18AWG\*2C, no Pb PVC, 105°C 300V, Jacket color: BLACK, Insulation color: red(+), black(-).