

# ANP60-42P-277

*Dimmable, Constant Current,  
Class II Output, LED Power Supply*



## Features and Applications:

- Two Class II DC Constant Current Output Channels
- Highly Efficient Switching-Mode Technology
- Active PFC (Power Factor Corrected)
- Built For Outdoor Wet, Damp or Indoor Dry Applications
- Silicone Encapsulated For Wet Locations  
(Use UV approved Water-Tight Conduit and Fittings)
- Built-in EMI Filter For Low Noise
- Water-Tight Ultrasonic Sealed Case for Ingress Protection
- Over-Current and Over-Voltage Protection With Auto-Recovery
- Dimmable Outputs (See Page 2 for Dimming Operation Graph)

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

### Electrical Specifications

#### INPUT

Input Voltage Range	90 - 305Vac
Frequency	47 - 63Hz
Input Current	max. 1.5A@115Vac/60Hz,full load
Inrush Current	80A @230Vac input/60Hz,full load
Efficiency	≥86% @full load
Power Factor	≥0.9 @ full load

#### OUTPUT

Output Current	700mA per channel
Leakage Current	0.25mA max.
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.
Output Dimming Mode	0 ~ 10Vdc Dimming Control

### Safety Certifications


UL UL8750



### General Specifications

Isolation Voltage	3000V AC, AC ~ DC 1500V AC, AC ~ PE
Weight	500 g (1.1lbs.)
Warranty Info	3 year
MTBF	> 100K Hours at 25° C, 80% load
Robust Design	Guaranteed Full Load at 60° C Derate to 50% at 70° C UL Class II Wet Location

### Environmental Specifications

Operating Temp.	-20°C to +60°C full load
Derating Temp.	50% at +70°C
Storage Temp.	-40°C to +85°C
Relative Humidity	5% to 95% ( non-Condensing )
Ingress Protection	IP65, Rated for UL Wet Location
Cooling	Convection
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 Output Specifications

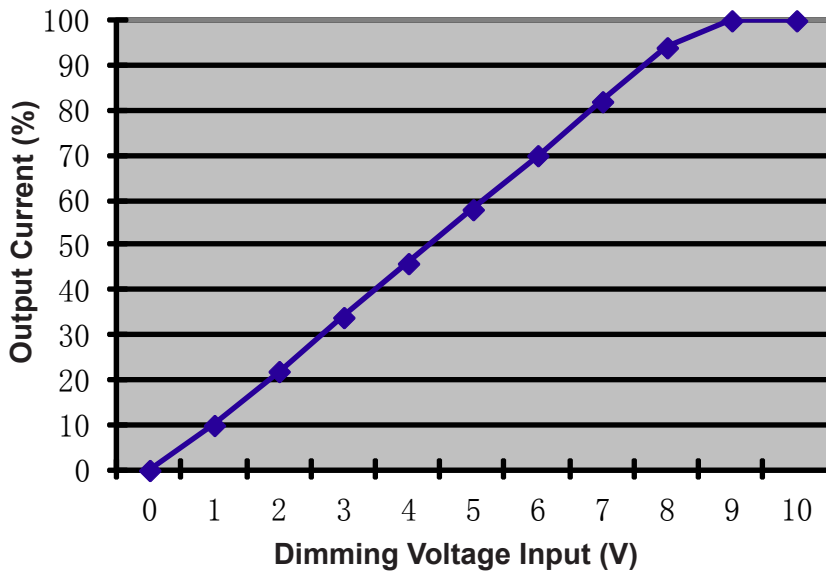
Model	Output Voltage (V)	# of Channels	Output Voltage Range (V)	Output Current (mA)	Output Current Range	Max. Output Power (W)
ANP60-42P-277-3	+ 42	2	12 ~ 42, +/- 5%	700	+/- 5%	59.4W
	+ 12	1	10.8 ~ 13.2, +/- 10%	50	+/- 5%	

### Notes:

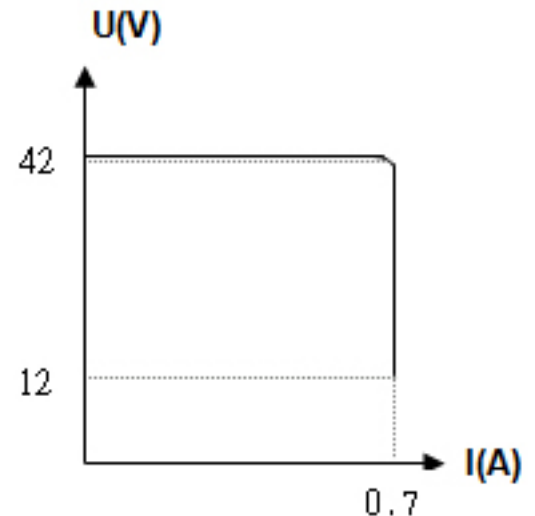
1. The DC output channel will automatically shut down and auto-recover after an over-current limit (OCP) trip event.
2. Two independent, parallel and precision current outputs can be simultaneously dim together.
3. The black output wires shared the common ground and each red and black wire pair form an independent output
4. The two constant current outputs can be grouped together to form an 1.4A current output.
5. The 3rd output channel is a constant voltage 12V output.

## PWM Dimming Output Graph & Constant Current Figure

### PWM Dimming Output Graph



### Constant Current Figure



# ANP60-42P-277

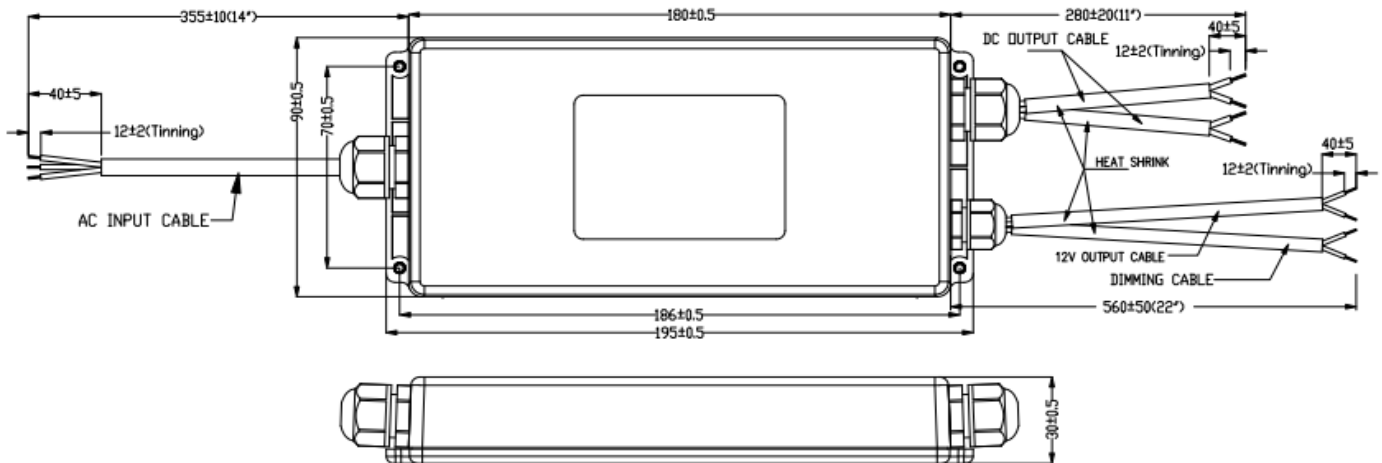
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## Mechanical Information

Unit: mm

These components shall be installed in compliance with the enclosure and mounting requirements of the ultimate application.



**NOTE:**

1. AC input cable: UL2517 18AWG\*3C (white,black,yellow/green);
2. DC output cable:UL1015 22AWG ,red(+),black(-);
3. Dimming cable: UL1015 24AWG ,Orange(+),green(-);
4. 12V output cable:UL1015 24AWG ,red(12V),black(0V)。