

# ANP240 Series

## Class II Quad Channel LED Power Supply



### Features and Applications:

- Four (4) Independent Class II DC Outputs
- 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
- Rugged Rain-Proof Aluminum Extruded Case - IP65 Rated
- Over-Current and Over-Voltage Protection With Auto-Recovery
- Output Voltage and Output Current Adjustable

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

### Electrical Specifications

#### INPUT

Input Voltage Range	90 - 264Vac
Frequency	47 - 63Hz
Input Current	max. 3A @115Vac/60Hz, full load
Inrush Current	50A typ. @ 230V, 25°C cold start
Efficiency	≥85% typ. @full load, input 230Vac
Power Factor	≥0.95 at full load 115Vac

#### OUTPUT

Output Voltage Adjustment	-20% ~ +10%
Leakage Current	2mA @110Vac, 4mA @230Vac
Low Ripple & Noise Voltage	<1% V output
Over Voltage Protection	<130% nominal voltage
Short Circuit Protection	Shutdown & Auto Recovery
OTP Protection	105°C ± 5°C @ Case Ambient
Start-up time	< 2 sec.


### Safety Certifications

UL	UL60950-1, UL1310 (Wet), UL8750 for UL1310, UL935
UL	UL879 (Sign Component Manual)  Approved to FKSZ2 (LED Display Driver)
TUV	EN60950-1, IP65 
CE	

### General Specifications

Isolation Voltage	3000V AC
Switching Frequency	100K Hz
Weight	4.2 Kg (8.8lbs.) max.
Warranty Info	5 year
MTBF	> 100,000 Hours at 25° C
Robust Design	Guaranteed Full Load at 70° C Derate to 50% at 80° C UL Class II Wet Location

### Environmental Specifications

Operating Temp.	-30°C to +70°C full load
Storage Temp.	-40°C to +85°C
Relative Humidity	5% to 95% ( non-Condensing )
Enclosure	Outside case sealed per IP65
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: ANP240 Series Model Output Specifications**

Model	Output Voltage	# of Channels	Voltage On-board Potentiometer Adjustment Range	OCP Trip Point	Max Combined Current	Max Output Power Watts
ANP240-12P	+ 12V	4	-20 / +10 %	5.0A	20A	240W
ANP240-15P	+ 15V	4	-20 / +10 %	4.0A	16A	240W
ANP240-19P	+19V	4	-20 / +10 %	3.16A	12.63A	240W
ANP240-24P	+ 24V	4	-20 / +10 %	2.5A	10A	240W

### Notes:

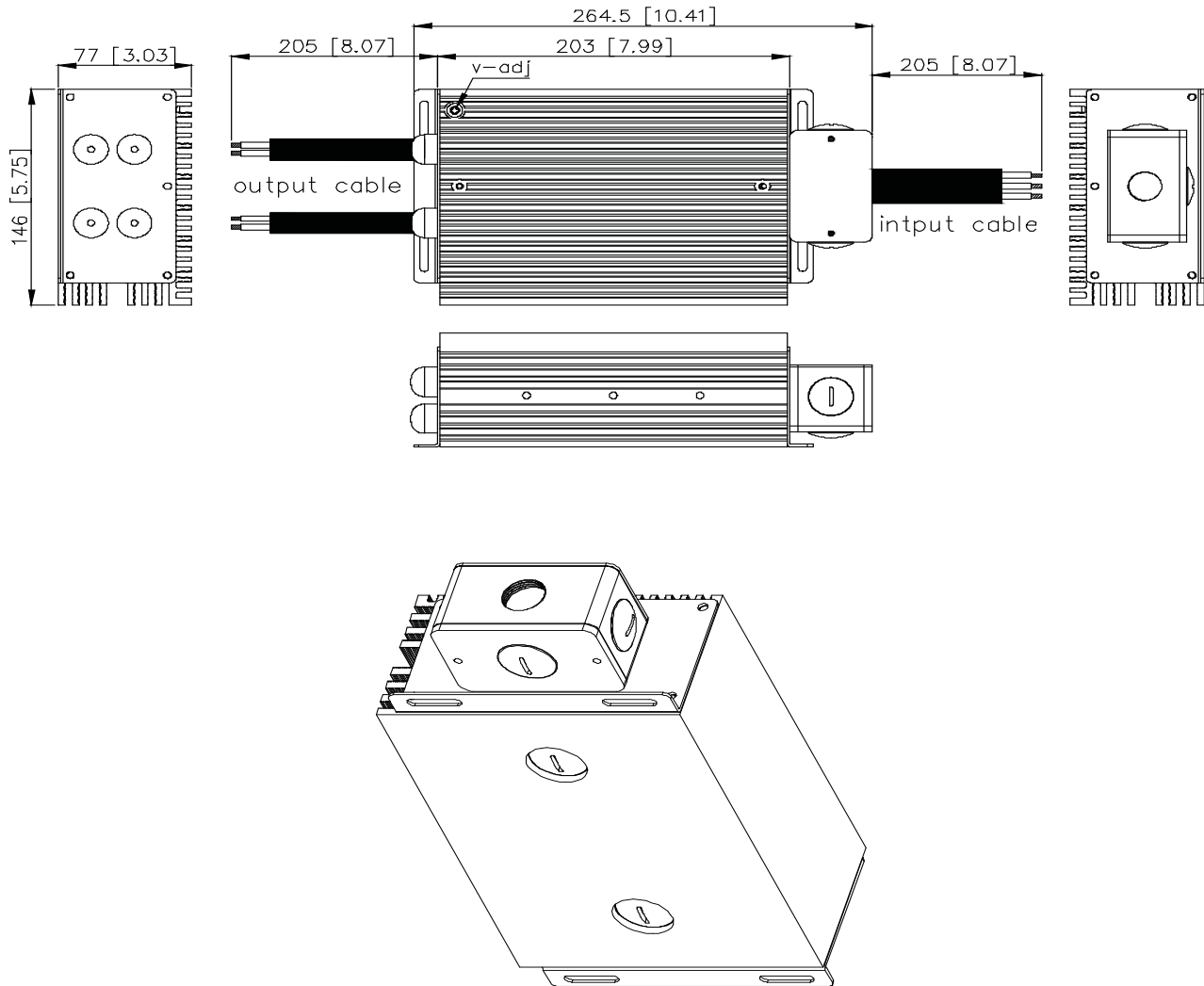
Each individual DC output channel will automatically shut down and auto-recover after an over-current limit (OCP) Trip event . The other output channels will be unaffected by a single channel OCP trip event as long as the over current for the individual channel measures less than 2X the OCP limit during it's auto recovery cycle . All other Outputs will be shut down and placed into auto recovery mode as soon as the over current of any individual channel exceeds the 2~3 X OCP limit.

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## Mechanical Information



Notes: All dimensions in mm. (inch.)

Amperor, Inc. DataSheet © 2009

The information and specifications contained in this data sheet are believed to be accurate at time of publication. Specifications are subject to change without notice.

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