

# ANP155 Series - 277V

## Class II Dual Channel LED Power Supply



### Features and Applications:

- Two (2) 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 - 277Vac                        |
| Frequency           | 47 - 63Hz                          |
| Input Current       | max. 2.5A @90Vac/60Hz, full load   |
| Inrush Current      | 70A 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            | 0.25mA @110Vac, 5mA @230Vac |
| 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 @ Case Ambient   |
| Start-up time              | < 2 sec                     |

### Safety Certifications

UL UL60950-1, UL1310 (Wet), UL8750, 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 | 50K 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<br>Derate to 50% at 80° C<br>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: Model vs. Output Specifications**

| Model           | Output Voltage | # of Channels | Voltage On-board Potentiometer Adjustment Range | Current On-board Potentiometer Adjustment Range | OCP Trip Point | Max Combined Current | Max Output Power Watts |
|-----------------|----------------|---------------|---|---|----------------|----------------------|------------------------|
| ANP155-12AC-277 | + 12V          | 2             | -20 / +10 %                                     | -70 / +0 %                                      | 5.0A           | 10A                  | 120W                   |
| ANP155-15AC-277 | + 15V          | 2             | -20 / +10 %                                     | -70 / +0 %                                      | 4.0A           | 8A                   | 120W                   |
| ANP155-19AC-277 | +19V           | 2             | -20 / +10 %                                     | -70 / +0 %                                      | 3.16A          | 6.32A                | 120W                   |
| ANP155-24AC-277 | + 24V          | 2             | -20 / +10 %                                     | -70 / +0 %                                      | 3.13A          | 6.26A                | 150W                   |

### Notes:

Each individual DC output channel will automatically shut down and auto-recover after an over-current limit (OCP) Trip event . The other output channel will be unaffected by a single channel OCP trip event as long as the over current for the individual channel measures less than 1X the OCP limit during it's auto recovery cycle . Only one output will Be shut down and placed into auto recovery mode as soon as the over current of any individual channel exceeds the 1X OCP limit.

