



HVPSI

SPL-A Series

Microprocessor-Controlled
Air Ionizer Power Supply

- 24VDC and Universal AC Input Versions
- Up to 50W of output power
- Unlimited output arc and short-circuit protection
- Multiple Status Indicator LEDs
- Ionizer and collector outputs
- Fixed or user-adjustable ionizer output (50% to 100% output)
- Over-voltage, over-current, over temperature shutdown
- Auto reset of faults
- Available in positive or negative versions
- Software customizable performance



| | Conditions | | Value | Units |
|----------------------------------|------------------------------------|-------------|---------------------------|-----------|
| Input | | | | |
| Input Voltage | All Versions | | 108 - 264Vac / 21 - 28Vdc | - |
| Power | At Max load | | 65 | W |
| Output | | | | |
| Voltages Available | Primary Output / Auxiliary Output | | 15 / 7.5 | kV DC max |
| Voltage Adjustment | 0 - 5 VDC Input | | 50% to max Vo | - |
| Power | Nominal Input, Max Vo | | 50 | W |
| Current, Primary Output | Nominal Input, Max Vo | | 3.4 | mA |
| Regulation, Primary Vo | Any Static Load, Max Vo | | <0.2% | V DC |
| Ripple | Full Load, Max Vo | | <3% | V p-p |
| Line Regulation | Over input V range, Full Power | | <0.1% | V DC |
| Stability | Over 8hr, 30 min warm up | | <0.2% | V DC |
| Current, Alternate Output | Nominal Input, Max Vo, unregulated | | 300 | uA |
| Control & Monitoring | | | | |
| | Indicator | User Output | | |
| Over Voltage | Purple | 10ma sink | >15% over set voltage | % |
| Over Current | Red | 5ma sink | >10% over max current | % |
| Under Voltage | Blue | 5ma sink | >10% under set voltage | % |
| Over Temperature | Yellow | 10ma sink | >85°C internal temp. | °C |
| Normal Operation | Green | 5ma sink | | |
| Environmental | | | | |
| Operating Temperature | Case Temp, Full Load, Max Vo | | 0 to +60 | °C |
| Temp. Coefficient | Over the Operating Temperature | | 0.05 | %/°C |
| Storage | Non-Operating, Case Temp | | -40 to +85 | °C |
| Humidity | Non-Condensing | | 0 to 95% | RH |
| Altitude | Standard Operating Conditions | | 0 to 10000 | Feet |

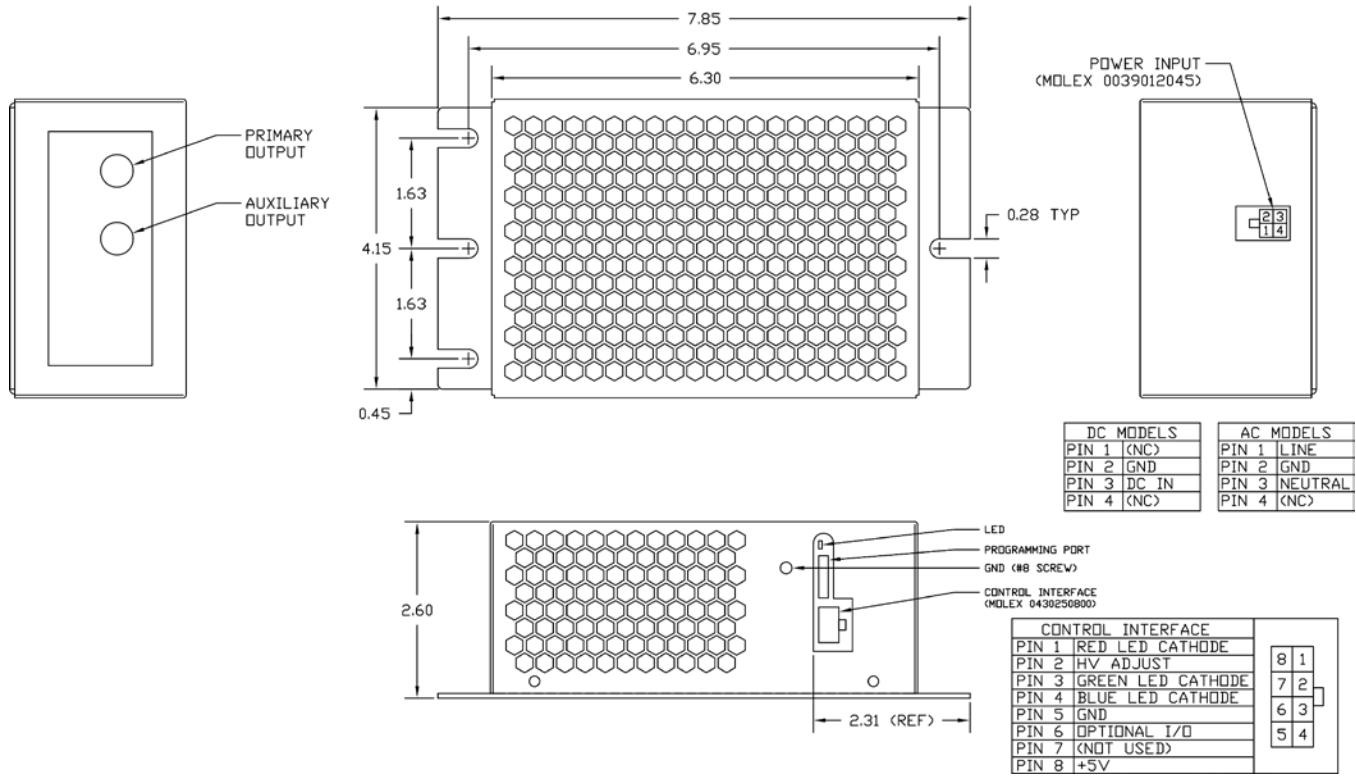


High Voltage Products. High Voltage Experts.

HVP High Voltage Products GmbH Bunsenstr. 5 82152 Martinsried/Planegg +49 89 891 374 80

www.hvproducts.de
info@hvproducts.de

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| Part Number | Input Voltage | Output Voltage | Collector Output (50% of Ionizer) | Polarity | Output Power |
|----------------|--------------------------|-----------------|-----------------------------------|----------|--------------|
| SPL-A-AC-15P50 | AC Input (108 – 264 VAC) | 7.5kV to 15kV | 3.75kV to 7.5kV | Positive | 50 Watts |
| SPL-A-AC-15N50 | AC Input (108 – 264 VAC) | -7.5kV to -15kV | -3.75kV to -7.5kV | Negative | 50 Watts |
| SPL-A-DC-15P50 | DC Input (21 – 28 VDC) | 7.5kV to 15kV | 3.75kV to 7.5kV | Positive | 50 Watts |
| SPL-A-DC-15N50 | DC Input (21 – 28 VDC) | -7.5kV to -15kV | -3.75kV to -7.5kV | Negative | 50 Watts |

Additional Features:

- Fixed outputs available with Universal input
- Factory adjustable fault set points
- Factory programmable soft start options
- LED configurations factory adjustable
- Voltage step down function on fault available
- Factory adjustable time delay on fault restarts
- Factory adjustable fault lockout counter
- Contact factory for custom requests!

