



The P176 Instrument Lighting Dimmer was designed as a direct replacement for Airbus Helicopters AS350 Series Helicopters that use Airbus Helicopters P/N: 704A46814049 or earlier Dimmer Power Supplies.

We took our 25 years of experience with the AS350 and designed this unit with the mechanics and owners best interests in mind. It's design is greatly improved over the factory unit. It is also a direct footprint and plug compatible replacement. The P176 does not require the use of spacers to mount it to the shelf, which will save your mechanics the aggravation and time related to installation of the unit. No wiring changes or modifications of any kind are required for installation.

Factory units are not short circuit or thermally protected, which means that with one shorted post light, the factory unit is *DEAD*. The unit will have to be sent for repair or be replaced. Our new supply is both short circuit and thermally protected. In the case of a short circuit, the unit shuts down to protect itself. As soon as the short is removed or repaired the unit resumes normal operation. There are no fuses to replace in the unit, as it is self resetting.

Due to the location of the unit in the aircraft, the factory units are constantly exposed to moisture from leaks or loose hoses on the air vent box and from moisture egress in the nose area. Our new supply uses only Gold Plated Contacts for both the vertical header and edge connector. The unit is also conformal coated to prevent corrosion of the PCB as well.

The P176 Dimmer Power Supply is a Linear style power supply and not a switch mode supply. This unit will not generate any EMI that might affect your aircrafts avionics systems.

Why replace your unit with a rebuilt unit or a factory unit that will suffer the same fate, when you can improve your system with a P176?

This will probably be the last Dimmer Power Supply your aircraft will ever need.

P176 Ordering Options:

Part Number	Description
P176	Dimmer Power Supply

SPECIFICATIONS	
Input Voltage	24 to 32 VDC
Input Current at Full Load	6 Amps Max.
Output Voltage	Adjustable, 2 to 28 VDC
Power Output	5 Amps Max. (2 ch. at 2.5 Amps each)
Overload (OL)	110% to Thermal Limiter.
Protection (OL)	Thermal Shutdown, Auto Recover
Protection (SC)	6 Amps, I in 0.5 Amps Max.
Efficiency	Linear
Temperature	- 40 to 80C
Cooling	No Fan. Convection and Thermal Conduction to Heatsink.
Finish	Epoxy Powder Coat
Weight	1.50 lbs.
Size	5.7 W x 5.85 L x 2.42 H inches Less protrusion of connector.
Installation Time	20 Minutes

Certification

FAA/PMA STC SH4747NM	AS350 B, BA, B1, B2, B3, C, D, D1
Brazil CHST 2007S06-09	AS350 B, BA, B1, B2, B3, C, D, D1
Canada STC SH93-83	AS350 B, BA, B1, B2, B3, C, D, D1
EASA.IM.R.01343	AS350 B, BA, B1, B2, B3, C, D, D1

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