



The P168 Power Converter is a power solution designed specifically for the requirements of heavily equipped aircraft. The unit was also designed to meet the tight tolerances of microprocessor based equipment with regard to stability, ripple and turn on rise times.

The P168 has the Highest Maximum Operating Temperature and Highest Efficiency as well as the Lowest Weight and Lowest Cost of any power converter in it's class.

With over twenty years experience in the integration of electronic systems in aircraft, Eagle Copters designed a Power Converter to specifically address the problems most often encountered with the integration and powering of multiple complex systems.

The unit features an extremely low radiated noise floor allowing the use of multiple units without EMI emission levels that can cause squelch break symptoms in VHF Communication radios.

With a 100 millisecond turn on rise time, the P168 Power Converter is specifically designed to work with processor based equipment that utilize switch mode type power supplies, thereby reducing false start ups and shortened lifespan in the power supplies of these types of equipment.

For the convenience of the installer or technician, the unit's output voltage is adjustable by a control that is located on the side of the unit instead of inside the unit or located in a place that requires the unit to be removed from the airframe for adjustment.

Required installation Cannon Plug Included with kit.

# P168

28 to 12 VDC  
20 Amp Power Converter

SPECIFICATIONS	
Input Voltage	20 to 32 VDC
Input Current at Full Load	9.9A (=92.3% efficiency)
Input Current at No Load	68 ma
Output Voltage	Adjustable, 12 to 15.5 VDC, regulated, Adj. pot access on side.
Power Output	280 Watts, 448 Watts peak
Regulation; Line	0.06%
Regulation; Load	0.7%
Overload (OL)	110% for 2 hour min.
Protection (OL)	Recovers with No Damage
Protection (SC)	29.3 amps, I in 2.5 amps
Efficiency	93% typical
Temperature	- 40 to 80C
Cooling	No Fan. Convection and Thermal Conduction through Base.
Finish	Gold Iridite per MIL-C-5541 Class 1A
Weight	1.07 lbs.
Size	2.75 W x 6.875 L x 2.24 H inches Less protrusion of connector. No protruding screw heads
Turn On Rise Time	
50% Load	90 msec
100% Load	110 msec

Certification	
FAA/PMA STC SR02301SE Part 27 SR02407SE Part 29	AS350 B, BA, B1, B2, B3, C, D, D1 AS355 E, F, F1, F2, N, NP EC130B4, EC130T2 EC135 P1, P2, P2+, T1, T2, T2+ MBB-BO 105 A, A-1, A-3, C, S MBB-BK 117 A-1, A-3, A-4, B-1, B-2, C-1, C-2 Bell 206 A, A-1, B, L, L-1, L-3, L-4, 407, 204B, 205A, 205A-1, 205B, 212, 214B, 214B-1, 214ST, 412, 412EP, 412CF
Brazil STC 2014S08-02	AS350 B, BA, B1, B2, B3, AS355 F, F1, F2, N, NP EC130B4, EC130T2 EC135 P1, P2, P2+, T1, T2, T2+ MBB-BO 105 A-1, C, S Bell 206 A, A-1, B, L, L-1, L-3, L-4, 407
Canada STC SH08-51	AS350 B, BA, B1, B2, C, D, D1 AS355 E, F, F1, F2 BO-105 A, C, LS A-1, S, B Bell 206 A, A-1, B, L, L-1, L-3, L-4, 407
EASA 10036868	AS350 B, BA, B1, B2, C, D AS355 E, F, F1, F2 BO-105 A, C, LS A-1, LS A-3, S, B Bell 206 A, A-1, B, L, L-1, L-3, L-4, 407

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