

LOW VOLTAGE SYSTEM POWER SUPPLY



Advanced Conversion Technology specializes in designing and manufacturing power supplies to meet today's most demanding environmental, complexity, performance and miniaturization requirements. Through the use of advanced, modular, solid state design and superior packaging techniques, every power supply provides optimum voltage density in a producible package. These power supplies are specifically tailored to the application...without the usual and expected high cost.

With the talent and know-how gained from many years of experience, ACT engineers are able to demonstrate their expertise in every facet of their products. All ACT power supplies are factor repairable down to the component level. Every unit is delivered with a 16 hr (or greater) burn in* and acceptance test data.

ACT's quality system has been approved (by Government and Customers) to be in conformance with MIL-I-45208. Workmanship standards are certified to MIL-HDBK-454; IPC/EIA J-STD-001C and other current high REL specifications.

The multi-output low voltage power supply shown above is designed to provide the DC outputs needed to power the individual elements of a sophisticated avionics system. This rugged device incorporates up-to-date proven switching circuitry to achieve outstanding performance and efficiency in a compact package. Of course High-Rel componentry and certified MIL-HDBK-454 workmanship are used to insure maximum reliability. An anodized aluminum housing affords mechanical protection and good thermal conductivity.

This highly specialized LV power supply is just one of many created by Advanced Conversion Technology. The same experienced and highly qualified engineers who designed this particular supply stand ready to design a power supply for your specific requirements ...promptly, thoroughly, and economically.

FEATURES

OVERCURRENT PROTECTION

OVER-UNDER VOLTAGE

PROTECTION

OVERTEMPERATURE PROTECTION

POWER DOWN WARNING SIGNAL

REMOTE TURN-ON/TURN-OFF

INPUT-OUTPUT ISOLATION

MIL-E-5400K DESIGN

FORCED AIR COOLED

ACT PROGRAMS

AIR:

F-18	F-5E
F-14	V-22
JAS (Sweden)	RF-4C
J-Stars	A-10
B-52	F-111

TANK:

HIRE
DTV
M1

SHIPBOARD:

FFG
CG47
DD963
TRIDENT

MISSILE:

AMRAAM
PHOENIX
SEA SPARROW

GROUND:

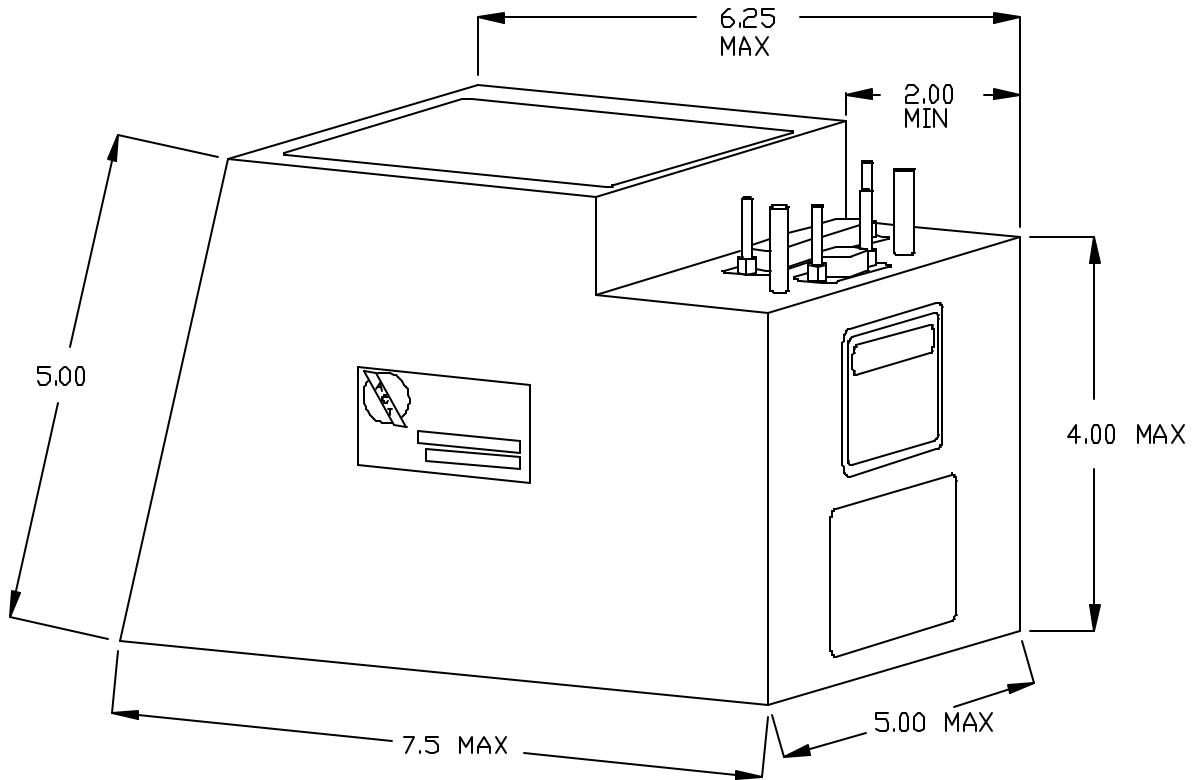
GEODS

HELICOPTER:

BLACK HAWK
LHX
FLIRS (Several)

*Additional burn-in options available.

LOW VOLTAGE SYSTEM POWER SUPPLY SR13661



WEIGHT: 7.2 LBS. **HOUSING:** IRIDITED ALUMINUM WITH MATCHING COVER PLATE

REPRESENTED BY:



**ADVANCED
CONVERSION
TECHNOLOGY**

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CHARACTERISTICS ELECTRICAL

INPUT

103 TO 125 3 PHASE 400HZ MIL-STD-704D TRANSIENT

OUTPUTS

NOTES	VOLTAGE	CURRENT	REGULATION	RIPPLE
b	+5.1VDC	26A	±2%	50mV
a	+15VDC	2.2A	±5%	50mV
a	-15VDC	2.2A	±5%	50mV
a,e	+28VDC	2.7A	±2%	75mV
a,e	-28VDC	2.7A	±2%	75mV
a	+60VDC	100mA	0.5%	100mV
a	+7VDC	0.5A	±3%	50mV
b,c	+5V SB	2.7A	±2%	50mV
d	+28VDC H.V.	1.8A	±2%	75mV

- a) 5 MILLISECOND HOLD UP
- b) 10 MILLISECOND HOLD UP
- c) +5VSB DROPS TO 3.2VSB @ 325ma FOR 1.1 SECOND HOLD UP; +28VDC H.V. OUTPUT IS SUPPLIED TO HIGH VOLTAGE POER SUPPLY.
- d) OUTPUT DELAYED FOR 10 SECONDS AT TURN ON.
- e) 12AMP PEAK CURRENT, ALTERNATE 8 MILLISECOND RAMP.

ENVIRONMENTAL

TEMPERATURE: -54°C TO +71°C FORCED AIR COOLED

VIBRATION: RANDOM – 12G'S, 15 TO 2000HZ

SHOCK: 15G'S - 11 MILLISECOND

EMI: MIL-STD-461

ALTITUDE: 70,000 FT.

EXPLOSIVE DECOMPRESSION, SALT SPRAY, SAND AND DUST, HUMIDITY