**VOLTAGE CONVERTERS - POWER PANELS**

**AMERI-KING AK550 POWER BOOSTER**
- The Ameri-King AK-550 is a FAA TSO’d approved Regulated DC to DC Power Booster Converter. It transforms an unregulated input from a 12 Vdc to a regulated +28 Vdc output to a bootstrap mode. It may be installed in a pressurized area, controlled or non-controlled temperature at altitudes up to 55,000 feet. It’s locations include Electrical/Avionic equipment rack, behind or beneath aircraft panel, or cabin pressure bulkhead. Installation is extremely simple. All necessary accessories are provided, including mating MS connectors, plug and MS cable clamp.

- AK-550-6C (6 amp) GA Applications P/N 11-00064 ........... $318.95
- AK-550-6 (6 amp) ............................................. $395.00
- AK-550-12 (12 amp) ....................................... $564.75
- AK-550-24 (24 amp) ........................................ $1,392.00

**AMERI-KING DC / DC CONVERTER**
- The Ameri-King AK551 is a FAA TSO’d approved Regulated DC to DC Power Reducer Converter. It transforms an unregulated input from a 24Vdc battery to a regulated +13.8 Vdc output in a Reducer mode. Applications include critical communication navigation digital Equipment: AM/FM/CD receivers; it may be installed in pressurized or non pressurized area, controlled or non-controlled temperature at altitude up to 55,000 feet. It’s locations include Electrical/Avionic equipment rack, behind or beneath aircraft panel, or cabin pressure bulkhead. Mating connector plug is provided.

- AK-551-9 (9 amp) ........... P/N 11-00066 ........... $184.95
- AK-551-18 (18 amp) ........ P/N 11-01455 ........... $309.95
- AK-551-40M (40 amp) ........ P/N 11-01456 ........... $999.00

**MID-CONTINENT INSTRUMENTS TS420-1 EMERGENCY POWER SUPPLY**
- Simultaneously provides one primary power output and three lighting power outputs. Pitot/Static ports or optional electrical input provides ability to work in automatic mode without pilot intervention. Arrows at beginning of flight. Activates instantly upon power loss. Recharges during flight. Turns off after flight. Utilizes sealed lead-acid cells for reliability and cold weather performance. Output voltages can power LED or incandescent lighting at 5, 14 or 28 VDC. Remote, mini-annunciation switch (with automatic dimming) controls test and manual operations. Quality Mil-Spec connectors included. Field replaceable battery module(s). Amp-hours of power at 18V: 2.5 Ah. Total system weight: 5.0 lbs. Designed and built in the USA. One-year limited warranty.

P/N 10-04770 ........... $2,398.00

**SS-6 CHARGE CONTROLLER**
- Morningstar’s superior series switching provides many advantages compared to shunt controllers. Series regulation reduces FET heating and lowers voltage stress on the power FETs. A series configuration also provides protection against lightning surges and reduces switching noise. The series design improves charging accuracy. In PWM, series switching becomes self-correcting for temperature and system voltage drops.

P/N 11-04618 ........... $70.50

**DELUXE COCKPIT VOLTAGE CONVERTER**
- 11-04330 DC-DC Converter, Device to reduce voltage from 28V to 12V. Allowing the user to operate 12V items in a 28V/24V airplane. The device is fully electronic, no resistive elements generating heat. It is fully protected and fused. A green LED indicates normal and abnormal conditions (overload). The unit is enclosed in a small precision machined aluminum box with integrated heatsink. Input is via a fused lighter plug and output is via a female light receptacle. Size: 1.3”x 1.3”x 2.3”; Weight: approx. 5.0 oz.

- 3 AMP, 28-12V DC-DC Converter P/N 11-04331 .................. $46.60
- 10 AMP, 28-12V DC-DC Converter P/N 11-04332 .................. $171.25
- Y-COUPLE – Heavy duty device that allows user to split the output of their cigarette lighter outlet in their airplane or to be used in conjunction with one of the above Cockpit Voltage Converters (running multiple items of one converter). This device is fuse protected (6.0A).

P/N 11-00041 ........... $17.75

**INVERTER – A device to produce Alternating Current out of a Direct Current Source. This device will generate 110V AC from a 28/24V DC Source. The inverter can be feed by an aircraft lighter receptacle and have a household 110V AC outlet. This device is fuse and electronically protected against overload, over temperature, over and under voltage.**

- 1109 28-110V Inverter P/N 11-00402 ........... $97.85

**EXP TRAY EX-110- he EXP BUS mounting tray is the ultimate in quick build time savings. The tray comes Pre-punched, and pre-assembled with breaker switches prewired to the PC board. All the builder needs to do is to cut a single rectangular hole in the panel, connect the battery, alternator, and all of the load wires to the proper terminals on the EXP BUS PC board mounted in the chassis. 14V DC systems (not recommended for 28V aircraft). Replaces all but one circuit breaker in most homebuilt aircraft, and includes the master switch, master relay, and the avionics master switch. The avionics output bus provides six protected circuits, and automatically shuts off when the starter is engaged. Three master bus outputs operate items such as panel lights, gyros and engine instruments: * Efficient: No “consumer” or “dummy” load required for proper operation * A beautiful and rugged lightweight package weighs just 16 ounces and is 3.5 x 2.5 x 1 inch. * Protection from the environment: complete epoxy encapsulation insures all-season operation * Easy installation: clamp type ring terminals and wiring schematics provided with every unit.

P/N 11-00430 ........... $418.00

**EXP 2V - he Expibus II is a lifesaver when wiring up your homebuilt project. The EXPBUS II is a complete electrical system on a single high current, printed circuit board. 14V DC systems (not recommended for 28V aircraft) For a small additional charge, we can configure your board with any size (1 to 11 amps) breakers in any position. Size: 7.8” long by 3” deep by 1.9” tall. Weight 0.8 lbs.

P/N 11-00431 ........... $299.00

**EXP BUS PRODUCTS**
- IND 2 - Annunciators for each solid state breaker on the EXP BUS * Over and Under Voltage Warning lights * Ammeter display * Instrument light dimmer circuit * Single ribbon cable installation to EXP Bus

The Indicator module is an accessory for the EXP BUS BUS LOAD CENTER. The panel mounted unit provides several enhancements to the basic load center, all mounted in a small panel mounted module, 4.6 inches long, and 2 inches wide. The module extends 2 inches in depth, behind the panel. The module provides an annunciator output for each fused output on the LOAD CENTER which will light if the circuit is tripped. It also provides OVER and UNDER VOLTAGE annunciators, an AMP-METER indicator, and a light dimmer circuit for the instrument lights.

P/N 11-00432 ........... $134.95

**BRKT 2 - Mounting brackets to simplify mounting the PC board in the aircraft. Put things where you want them to be. Free Shipping on this item.**

P/N 11-00433 ........... $21.95

**EXP 110 Tray unit x/ Battery Back up**

P/N 11-08430 ........... $469.95

**B&C HIGH/LOW VOLTAGE WARNING INDICATOR**
- The BC207 is a solid-state high/low voltage sensor which mounts behind the instrument panel, and provides a visual indication of abnormal bus voltages via an included panel-mounted warning light. When flashing, this light indicates bus voltage greater than 15.5 volts D.C. (or 31.0 volts D.C.) when steady, it indicates bus voltage below 12.5 volts D.C. (or 25.0 volts D.C.). Weight: 4.5 oz. Select the appropriate sensor below according to battery voltage.

BC207-1 OLV/LV Sensor (14 volt) P/N 07-06830 ........... $107.85

BC207-2 OLV/LV Sensor (28 volt) P/N 07-06335 ........... $79.00

**KEY WEST REGULATOR**
- Advanced regulator/rectifier circuit provides steady 13.8 volt output regardless of load. Maximum output 220 watts, 16 amps. 10v signal pulse output for digital or MaxFac Tach Warning. Accepts AC input from 15 to 100 volts. Can be used with AC strobe. Features: * Extremely clean filtered DC output * Electronics designed to deliver 16 amps producing 220 watts * Efficiency: No “consumer” or “dummy” load required for proper operation * A beautiful and rugged lightweight package weighs just 16 ounces and is 3.5 x 2.5 x 1 inch. * Protection from the environment: complete epoxy encapsulation insures all-season operation * Easy installation: clamp type ring terminals and wiring schematics provided with every unit.

P/N 11-03168 ........... $562.75

**AIRCRAFT SPRUCE WEST**
- CORONA, CA (877) 4-SPRUCE

**AIRCRAFT SPRUCE EAST**
- PEECHTREE CITY, GA (877) 777-7823