SMARTSTART MODULE
An electronic control module that controls the operation of the engine starter system. Improves the safety and security of push-button or key-switch starting systems by providing an interlocked and time limited operation of the engine starter. SmartStart controls standard aviation starter contactors and provides simple integration of control stick switch or panel mounted start switches. SmartStart includes inputs for interlock andarming switches and provides a 1 minute timer for activating the contactor and includes an armed LED that indicates when the engine may be started. Helps avoid unintentional activation of the engine starting system. Available with an optional airspeed switch that ensures in flight restarting of the engine and protects against accidental restarting at any attitude without the need to press the arming button. Hidden arming switch provides improved anti-theft protection. Door/canopy interlock provides improved safety. Compatible with standard keyed mag/start switch.

INTELLIGENT POWER STABILIZER
Provides aircraft bus voltage surge and sag protection for the connected electrical equipment. The IPS system allows electronic equipment such as engine monitors, EFIS and GPS’s to be operational before and during engine starting. Used with aircraft engine monitors it ensures the pilot can monitor critical engine operating parameters such as oil pressure during the engine starting process. Ensures the connected electronic equipment is provided with a stabilized power source even when the aircraft battery voltage drops significantly. Additionally provides surge protection by actively clamping the regulated output voltage. Features a panel mounted low voltage warning light which may be used to provide a pilot warning when the aircraft bus voltage falls below 12 volts.

INTELLIGENT LIGHTING CONTROLLER
Designed specifically to operate the lighting circuits used in homebuilt aircraft. Provides control of up to 4 lighting circuits plus dimmable control of up to 4 channels of instrument and cabin lights. The 4 lighting circuits may be used to control landing lights, taxi lights, strobe lights and navigation lights. Each channel is independently powered and controlled. Provides a wig-wag function between two of the lighting circuits. Each dimmable channel may include incandescent or LED lighting up to 1 amp. Specifications: • Input Voltage: 10-30 volts DC • Output Voltage: 4-10 volts • Switch: 1 amp maximum • Enclosure: Overall dimensions 3.75” x 2.25” x 1.25” • Weight: 6oz.

UNIVERSAL SWITCH-SPDT AIRSPEED KIT
Universal switch airspeed kit (USW-1) includes an ASW-1 airspeed switch and a Universal Switch-SPDT controller. This combination of components allows for switching of electrical loads up to 10 amps and up to 30 volts based on aircraft speed. The airspeed set point is factory calibrated to 100 knots, however, it may be field adjusted to switch the engine between 95 and 110 knots. Part number both a normally open and a normally closed contact for controlling any electrical load up to 10 amps. The system works with aircraft power systems from 10-30 volts.

TCW SAFETY-TRIM SERVO CONTROLLER
An electronic speed control system for standard electric trim servos found on many homebuilt aircraft. It replaces other speed controllers and relay modules with an electronic solution that resolves issues such as run-away trim and failure to operate conditions. Features: • Very simple wiring, no extra parts needed for pilot and co-pilot trim switches • Designed for standard electric trim servos, such as the Ray Allen T2 & T3 series • Short circuit proof, reverse polarity protected • 1 axis, 2 models available • For Experimental aircraft only NOT TSO’d • Made in USA • patented Specifications: • Input voltage: 10-30 volts DC • Output voltage: 10-30 volts DC • Weight: 6oz.

TCW CONTROL VALVE SERVO KIT
Fully proportional linear actuator servo for valves and dampers: Ideal for: Heater flap, doors, Oil cooler control, Alternate air door, Ventilation dampers

TCW INTEGRATED BACK-UP BATTERY SYSTEM
The Integrated Back-up Battery System provides back-up power to critical electronics such as EFIS, GPS, Navigators, Radios, Autopilots and Engine monitors. The IBBS is an fully automatic system that combines a Li-FePo4 battery pack, a smart charger and switching logic in one convenient package. The IBBS provides an engineered solution to enable an endurance bus for critical electrical loads found in today’s aircraft. It simplifies wiring and installation of a source of back-up power by integrating all the key elements into a single enclosure. The IBBS system is an FAA approved article produced exclusively by TCW Technologies, LLC under TSO-C179(a), Compliant with DO-311 & DO-160.

TCW INTELLIGENT FLAP CONTROL
Intelligent Flap Controller (IFC) is an electronic controller designed specifically to operate DC motor actuators, particularly the Van’s Aircraft series of Flap Actuators used in RV type homebuilt aircraft. IFC connects to the standard up-off-down switches commonly used to control flap operation and directly drives a Van’s flap actuator. IFC provides Vlo protection by sensing airspeed and preventing flap deployment above a set airspeed. IFC allows for Pilot and Co-Pilot flap switches and resolves the possible conflicts if the switches are operated in opposite directions. IFC requires NO flap position sensor and is fully compatible with Safety-Trim servos controllers. Features: • Protects against flap deployment above Vlo • Dual Inputs: Allows for Pilot and Co-Pilot switches • Uses the standard up-off-down flap switch or the Infinity stick grip • Controls the standard Van’s flap actuator • Eliminates the need for a flap positioning sensor • Eliminates flap motor run-on associated with traditional relay system • Very easy to use, UP switch drives flaps UP, Down switch drives flaps Down. Great for tandem aircraft !