USER'S MANUAL

for SmartPAK™ Controllers,
Models:
1210-xx
2410-xx
3610-xx
4810-xx

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The diagrams published are currently, or have been under test by the author, and may be subject to modification after they have been published in this document.

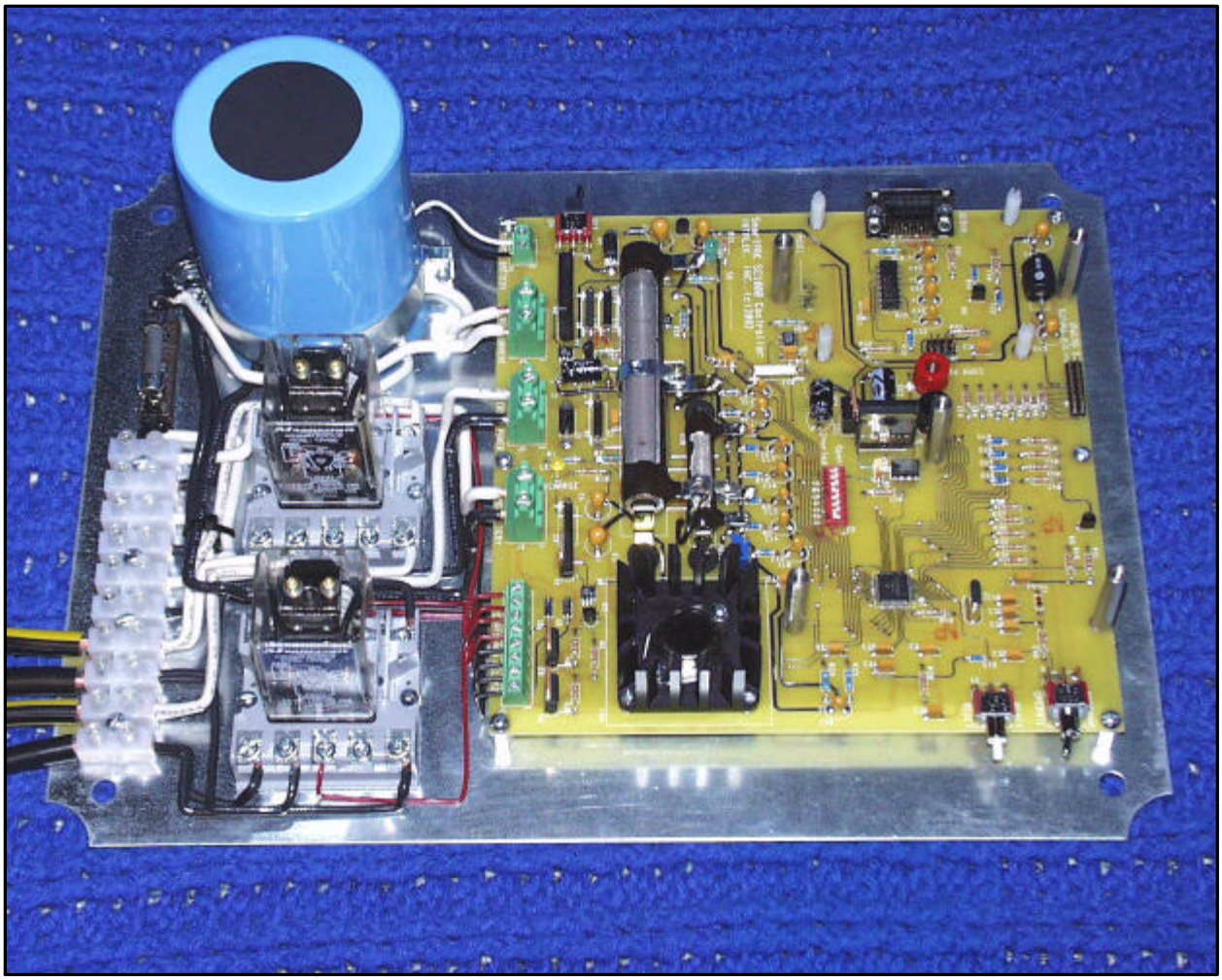


Figure 1. The SmartPAK™ Controller Panel Assembly

DESCRIPTION

SmartPAK™ is the world's first all solid-state FREE ENERGY or OVER-UNITY power management system that transforms ambient thermal environmental energy to excess electrical energy. It provides a "standard" platform for experimenters, researchers, and developers to do energy-related practical applications, experiments, and perform exploration of the OVER-UNITY phenomena.

The theory of operation is based on the difference of energy between magnetization/de-magnetization cycles of ferromagnetic materials utilizing a coil/core or coil/core/magnet Head assembly. It has been discovered that EXCESS energy is released during the de-magnetization portion of the cycle using a suitable core assembly. The SmartPAKTM system is specially designed to measure, collect, and store this excess energy for later use.

The SmartPAK™ system is controlled by a Motorola 68HC908GP32 microcontroller programmed to measure input/output voltages and currents, calculate COP, and contains software algorithms for a complete "turn-key" power management system. The system features a "standard" user interface, which allows the user to design their own custom coil/core/magnet "head assemblies", and immediately test and display in real-time its' performance.

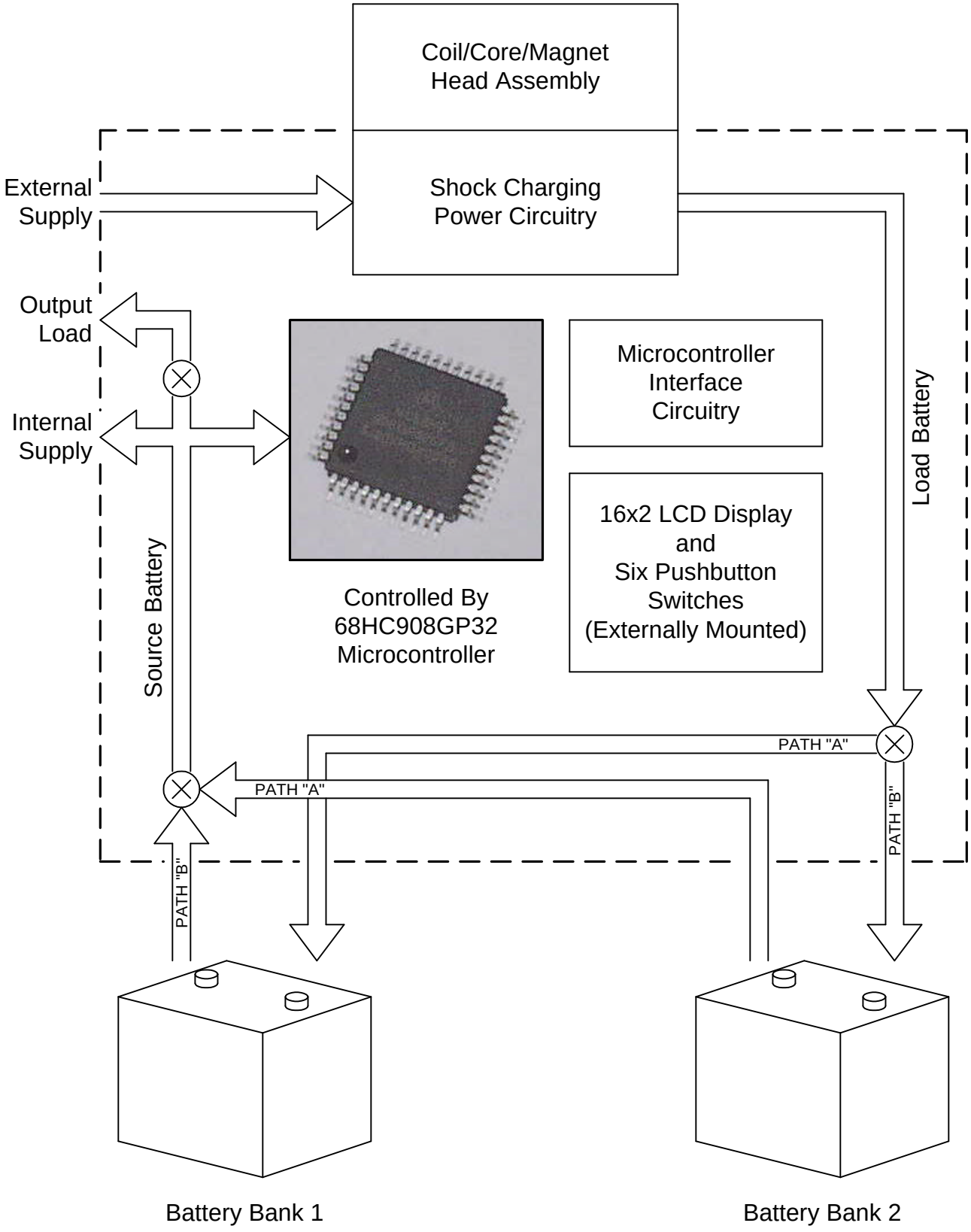


Figure 2. Functional Block Diagram

DIP SWITCH (S2) MODE SETTINGS

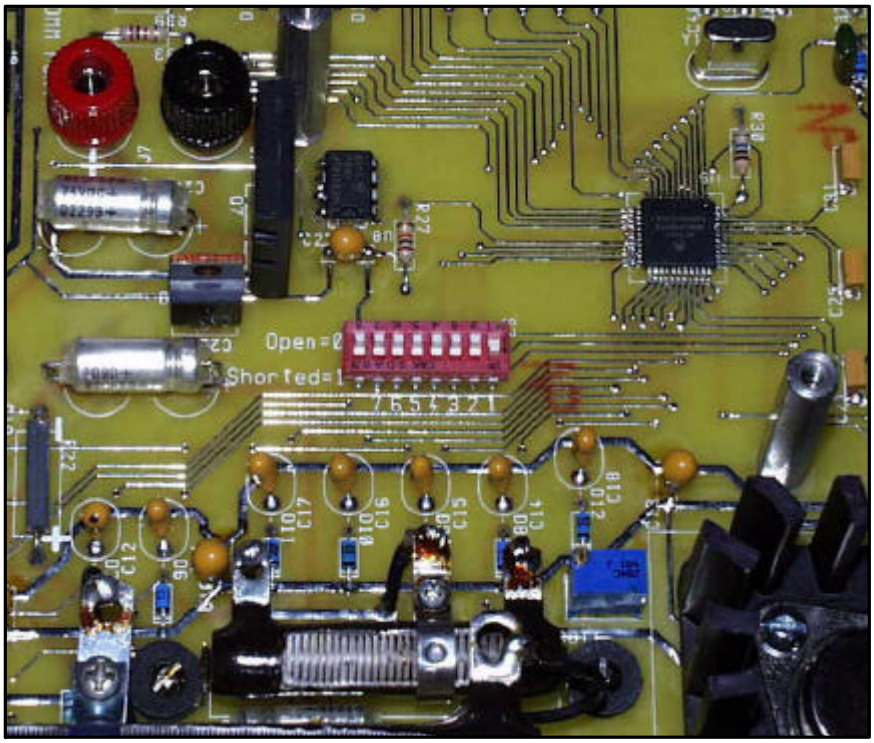
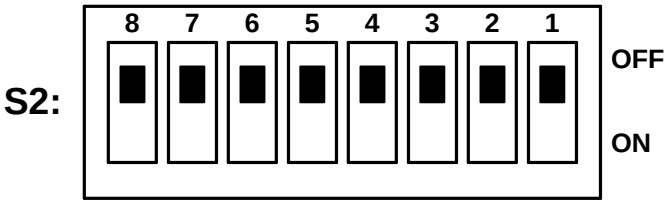
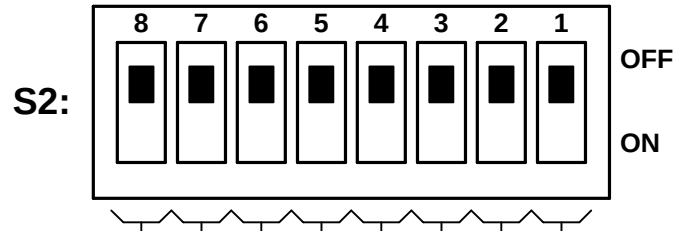


Figure 3. DIP Switch, S2.



DIP SWITCH (S2) MODE SETTINGS (CONTINUED)



S2-8: OUTPUT CONTROL OVERRIDE
OFF = Disable Override.
ON = Turn On Output Control.

S2-7: CONSTANT CURRENT LOAD OVERRIDE
OFF = Disable Override.
ON = Turn On Constant Current Load.

S2-6: BATTERY FAILURE MODE
OFF = Enable.
ON = Disable.

S2-5: CHARGE TYPE
OFF = Amps.
ON = Percent.

S2-4: CHARGE REGULATOR
OFF = Use Load Battery.
ON = Use External Battery.

S2-3: NOT USED

S2-2: BATTERY TEST MODE
OFF = Enable Battery Test.
ON = Enable Cycle Battery Test.

S2-1: CHARGING WAIT TIMER
OFF = Enable Long Timer.
ON = Enable Short (5 sec) Timer.