**CBC Design.**

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**Mechanical & Technical Specification.**

**EQ2-24 (Single 24V Unit: 2 Batteries) Pictured**

Length: 51mm

Width: 75mm

Height: 40mm including components

Weight: 93 grams

**EQ2-24T (Dual Redundant: 2 Sets of 2 batteries)**

Length: 101mm

Width: 75mm

Height: 40mm including components

Weight: 172 grams

**EQ2-36 (Single 36V Unit: 3 Batteries)**

Length: 101mm

Width: 75mm

Height: 40mm including components

Weight: 172 grams

**EQ2-48 (Single 48V Unit: 4 Batteries)**

Length: 152mm

Width: 75mm

Height: 40mm including components

Weight: 260 grams

MOUNTING: Four off M4 holes in pcb.

**Electrical Characteristics & temperature**

Operating temperature: 0-45oC.

Switch from Standby: >12.8VDC per battery.

Differential switch on: >50mV

Maximum Current: 1ADC

Operating Voltage Range: 8-16VDC (Per battery)

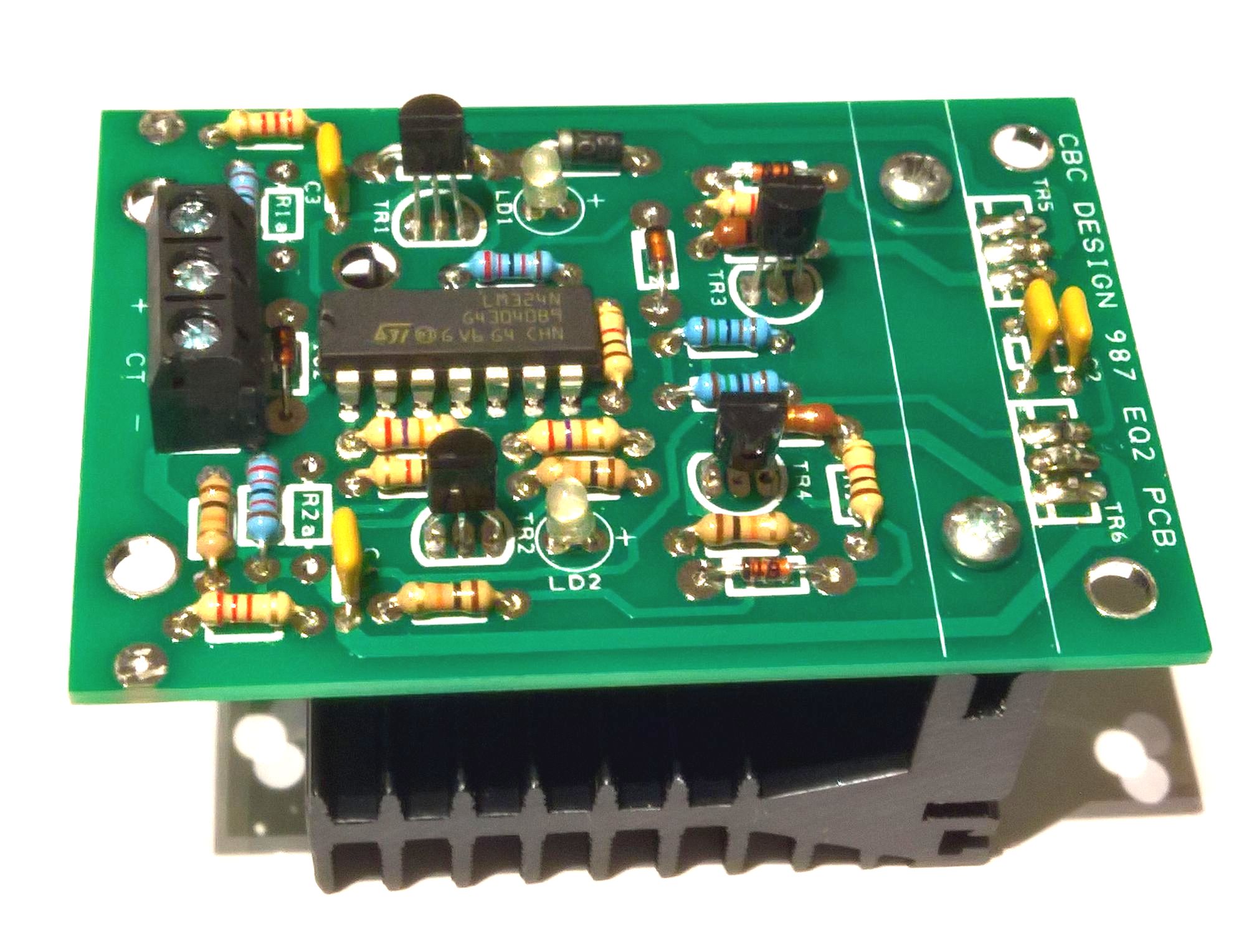
**Data Sheet Number EQ2-01/16**

**EQ2-987 OEM Battery**

**Equaliser**

**Design & Operating Characteristics**

**Design & Operating Characteristics**



The CBC EQ2-987 OEM Battery Equaliser is an open chassis electronic assembly designed to maintain the on charge voltage balance across two, three or four series connected batteries.

This improves the performance and lifetime of the battery pack by preventing any one battery from becoming overcharged whilst the others become undercharged which is a recognised problem that can occur over time when charging series connected batteries. Left uncorrected one battery becomes partially sulphated whilst another can dry out due to overcharging.

The EQ2 is available in three configurations so that two, three or four series connected 12V batteries can be balanced from an appropriate EQ2 assembly. This keeps costs down over the traditional approach favoured by other manufacturers where two or more individual products are used on battery packs consisting of three or more individual batteries.

Two 48V units and a single 36V unit can be used on 110V battery packs. Units for 6V and 10V batteries are also available.

The EQ2 has a maximum current flow rate of 1ADC and automatically switches from standby to on when the batteries approach full charge. The unit begins balancing when the batteries differ by more than 0.05VDC and maintains the batteries within 0.1VDC of each other. On-board leds illuminate when the unit is compensating for imbalance between the connected batteries.

The EQ2 is suitable for industrial applications in switch tripping and cycling battery management systems as well as electric vehicles such as mobility scooters, golf buggies and fork lift trucks.

Mounting kits are included with each variant.

**CBC Design. Controller & Battery Charger Fabrication Refurbishment & Repairs.**

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