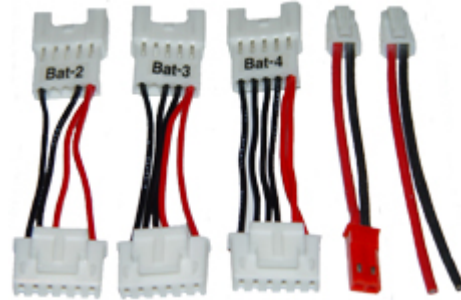


Polyquest Safety Guard & Balancer PQ-SB 510 Manual

Compact – Reliable – Intelligent – Safer



Safety Guard & Balancer PQ-SB 510 is for Li-Poly only.

Please read this manual carefully to assure proper use.

Includes:

- 1 PQ-SB 510 Balancer
- 1 Harness for 2S packs
- 1 Harness for 3S packs
- 1 Harness for 4S packs
- 5S packs plug directly into balancer (no harness required)
- 2 balancer to charger cables (1 is equipped with JST and other you can terminate yourself)

Features:

- * PQ-SB 510 shows the condition of each cell.
- * High performance microprocessor controls voltage, overcharging & unbalanced cells individually.
- * Unit is compatible with all Li-Poly chargers in current market (Except Supernova 3000).
- * It maintains the voltage of each cell regularly.
- * Will stop charging automatically when any cell is overcharged or input voltage exceeds 22.0 volts.
- * Err/Check LED flashes if you choose incorrect adaptor.

How to use:

1. For 2S, 3S or 4S packs, connect balancer to battery pack tap with supplied adaptor.
For 5S packs, connect battery pack tap directly to balancer (no adaptor required).
If there is an unmatched connection the Err/Check light flashes.
2. PQ-SB 510 will begin balancing voltage of each cell.
LED of the lowest voltage cell: Off
LED of higher voltage cells: Flashes
3. Wait until all the LED's for each cell goes out.
Err/Check LED light will come on (This indicates balancing is finished / full charge)
4. Connect the balancer to your charger to begin charge cycle.
5. PQ-SB 510 will balance voltages of cells during charging procedure
(Cell indicator on = unbalanced cell)
6. Balancing and charging is complete. Disconnect battery from balancer.

Err/Check LED flashes if:

- Input voltage exceeds 22.0 volts.
- Incorrect adaptor is hooked up.
- If any cell within the pack exceeds 4.25 volts.
- If any cell within the pack is below 2.50 volts.

Caution:

- Never short circuit any input/output leads.
- Keep away from water/moisture.
- Always balance and charge in a safe location.