



# Closed Circuit Voltage

(incoming inspection test)

- The open circuit voltage reading, no load applied, of a battery or pack can be misleading. A closed circuit voltage test, battery under load, is used to create a voltage drop in the battery. The amount of the voltage drop is a good indication as to the condition of the battery.
- Multiply the number of cells in the series pack by the load resistance. Multiply the number of cells in the pack by the "minimum voltage per cell to pass".

Example: 4 E91 series battery pack

$$4 \times 10 \Omega = 40 \Omega \text{ Load}$$
$$4 \times 1.4 \text{ volts} = 5.6 \text{ minimum pack voltage to pass}$$

	Load	Duration (Seconds)	Min. Voltage per cell to Pass
E95	10 $\Omega$	2 to 5	1.4
E93	10 $\Omega$	2 to 5	1.35
E92	43 $\Omega$	2 to 5	1.35
E91	10 $\Omega$	2 to 5	1.4
L91	3.9 $\Omega$	2 to 5	1.4

**Important Notice**

This document contains general information regarding design considerations.  
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