

Green-Cap(EDLC) Expected Load Life

SAMWHA ELECTRIC

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► Expected Load Life(L) = Lifetime at temperature T_0 X Temperature factor X Voltage factor

$$L = L_0 \times 2.0^{\left(\frac{T_0-T}{10}\right)} \times 1.5^{10(V_0-V)}$$

1. Temperature

$$L = L_0 \times 2.0^{\left(\frac{T_0-T}{10}\right)}$$

- L : Expected lifetime at temperature T
- L_0 : Lifetime at temperature T_0
- T : Expected working temperature
- T_0 : Upper category temperature

2. Voltage

$$L = L_0 \times 1.5^{10(V_0-V)}$$

- V : Expected working voltage
- V_0 : Upper category voltage