

MTBF of Big Beam Mains



Report on MTBF

A fairly large population is in production at customers and confidence level is set to 60%. Confidence of 60% is industry standard for complex systems.

MTBF is calculated on units tested at $T_a = 25^\circ\text{C}$ non forced cooling.

Total test duration $T = 2 \times 4680 \times 1 = 9360$ hour (as result 12-04-11)

(Sample size x Test duration x Acceleration factor)

Total failed samples: $r=0$

As function of standard distribution of $r=0$ at confidence level 60%: $\alpha = 0,917$

$MTBF = T / \alpha$

$MTBF = 10251$ hours