

Time Truncated Group Acceptance Sampling Plans for Exponentiated Half Logistic Distribution

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Abstract : In this article, we considered a group acceptance sampling plans for exponentiated half logistic distribution when the life-test is truncated at a pre-specified time. It is assumed that the index parameter of the exponentiated half logistic distribution is known. The design parameters such as the number of groups and the acceptance number are obtained by satisfying the producer's and consumer's risks at the specified quality levels in terms of medians and 10th percentiles under the assumption that the termination time and the number of items in each group are pre-fixed. Finally, an example is given to illustrate the methodology.

Keywords : group acceptance sampling plan, operating characteristic, consumer and producer's risks, truncated life-test

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