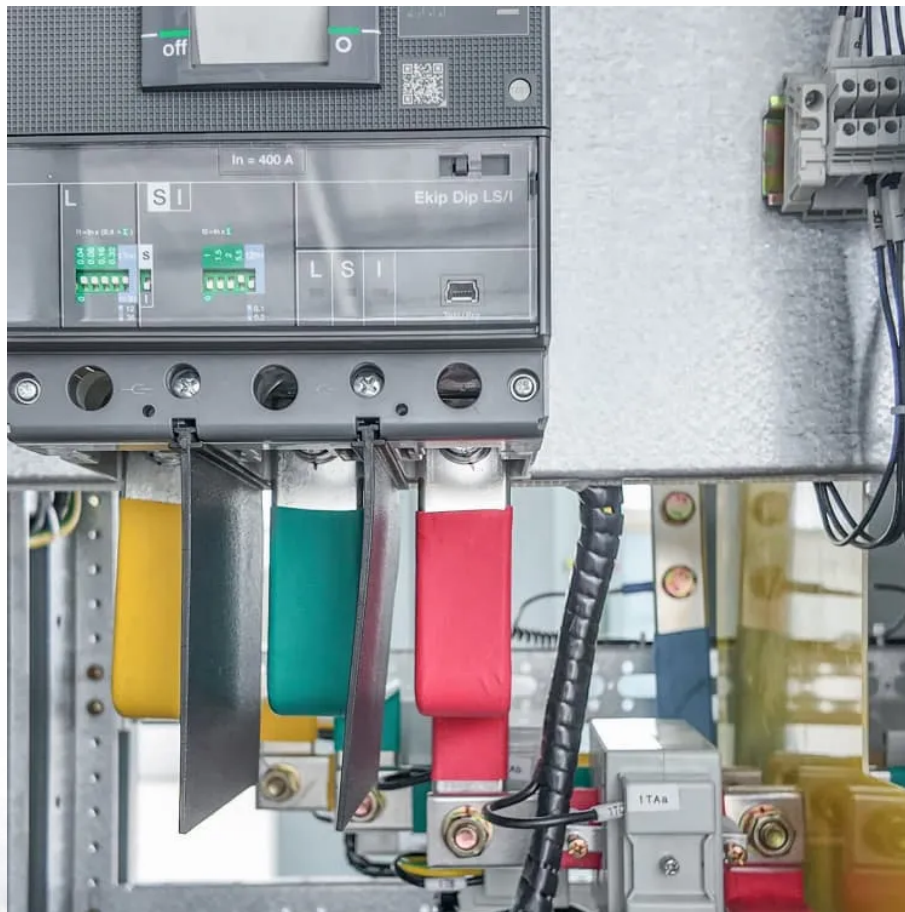


Warranty Cost Analysis of a 100kWh Photovoltaic Folding Container Product





Overview

How to estimate and predict warranty costs?

In order to estimate and predict warranty costs, a cost model is needed. Analysis of the model will provide the estimates. Proper formulation of the model requires an understanding of the warranty process. This begins with an appropriate system characterization. We briefly discuss each aspect of the methodology. Figure 7.3.

What is warranty cost?

When a product is sold with warranty the manufacturer (and sometimes the consumer) incurs additional costs in the servicing of the warranty. This cost is referred to as the warranty cost and it depends on several factors, with product reliability being one of the very important ones.

How to model the life cycle cost of warranty?

In modeling the life cycle cost of warranty, we will use $C_b(L,W)$ and $C_m(L,W)$ to denote the life cycle cost to the buyer and to the manufacturer, respectively. These costs are functions of W , the length of the warranty period, and of L , which we take to be greater than W .

What is NREL's PV cost benchmarking work?

NREL analyzes the total costs associated with installing photovoltaic (PV) systems for residential rooftop, commercial rooftop, and utility-scale ground-mount systems. This work has grown to include cost models for solar-plus-storage systems. NREL's PV cost benchmarking work uses a bottom-up approach.



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7 Warranty Cost Analysis

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