



**HIGH-VOLUME ELECTRICAL INSULATOR SOLUTION MEETS  
PRODUCTION DEMANDS WHILE INCREASING EFFICIENCY**

**OPTIMIZED TO MEET THE MOST  
DEMANDING EV REQUIREMENTS**

## MEETING DEMAND AND INCREASING EFFICIENCY

- A large solar manufacturer needed to increase production quickly and scale their manufacturing operations to meet substantial volume growth.
- Three iterations of design proposals were sent to the customer throughout the process. Mar-Bal built and tested prototypes of the finalized design.
- Mar-Bal designed a new electrical insulator part that ultimately replaced the assembly of three separate parts and reduced the overall application usage from 16 components to eight.



# HIGH-VOLUME ELECTRICAL INSULATOR - PART CONSOLIDATION SOLUTION MEETS INCREASED PRODUCTION DEMANDS, INCREASING EFFICIENCY & REDUCING MANUFACTURING COST

## Problem:

- Customer needed Mar-Bal to scale production for high volume electrical insulators to support substantial volume growth.



## How Solved:

- Mar-Bal reviewed and advised on part design and consolidation.
- Built and tested prototypes of the chosen design.
- The final design consolidated three components into one.
- Launched production tooling allowing customer to increase efficiencies and meet growth demands.

## Benefit:

- Mar-Bal was able to deliver a part that consolidated components resulting in lower costs and reduced labor time.
- The newly designed part eliminated assembly and an entire workstation, reducing cost and improving efficiency.
- The finished part allowed customer to meet production demands, scale their operations as needed and ultimately increase profits.