



STAHLIN NON-METALLIC ENCLOSURES

**RIGHT PRODUCT
RIGHT PRICE
RIGHT NOW**

Durable Stahlin Non-Metallic Enclosures Resist Diverse, Potentially- Damaging Environmental Factors In Solar Control Applications

THE SITUATION

Amptech Energy Systems is an alternative energy "Balance Of Systems" (BOS) supply specialist. They have designed solar PV combiners collaboratively with direction from solar PV BOS installers, integrators, electricians, design engineers, marketers, manufacturers and educators. The result is an extremely user-friendly combiner box. Amptech Energy Systems also provides a monitoring service to measure and diagnose the performance of combiner.

THE CHALLENGE

The Amptech Energy Systems combiner is designed to combine the output of multiple solar electric (PV) source circuits. Each circuit can accept up to 12 amps of PV input current up to a total maximum of 340 amps. It also provides a convenient, visual way to isolate the PV array input circuits. No interruption of the power production of other circuits in the array is required. This reduces the time required to troubleshoot any PV related circuitry problems and improves safety. The combiner also has an optional string level wireless monitoring capability as part of the "drop in" design to each combiner.

All of the extremely sensitive source circuitry and supporting components must be housed in an enclosure that has a proven ability to protect from impact, moisture, dust, corrosion, temperature variations and damage from UV rays. Sourcing such an enclosure required working with a manufacturer that provides a proven, high-degree of performance reliability.

Because the Amptech Energy Systems combiner box is designed for installation near the PV array, it is exposed to extreme environmental conditions including a wide range of temperature fluctuations, rain, snow and potentially damaging impact from the sun. Under such environmental extremes the need for optimum enclosure protection is paramount.



THE ANSWER TO THE CHALLENGE

After evaluating a wide range of metallic and non-metallic enclosures Amptech Energy Systems selected Stahlin Non-Metallic Enclosures to protect the source circuitry and related important components of its combiner box.

WHY DID AMPTECH ENERGY SYSTEMS CHOOSE STAHLIN?

"First: the quality of the non-metallic manufacturing process continues to improve and some manufactures, such as Stahlin, now have their own in-house material formulation capabilities. This assured us of consistency in product quality. Second: field testing demonstrated that fiberglass enclosures provide proven durability within the demanding environments in which we place our controls. We also found that some now carry a UL 94-5V flammability rating and are molded from sheet molded compound formulation that provides superior molded-in UV resistance. This combination enabled Stahlin to offer us a ten-year warranty against manufacturer's defects — the longest such assurance in the industry."

Mark Hughes
Energy Systems Sales Director
Amptech Energy Systems

THE RESULTS?

**FOR ADDITIONAL INFORMATION
ABOUT THE AMPECH
ENERGY SYSTEMS:**
<http://www.energybos.com>



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