CASE STUDY

Create Custom Solutions for Medical Products at Advanced Energy's Customer Solutions Center (CEC)

INDUSTRY	SOLUTION	EQUIPMENT
Home Healthcare	Custom Molded ME20	Infusion Pump

CHALLENGE

A leading medical manufacturer recently partnered with AE to create a custom solution for their infusion pump equipment. This home healthcare customer was facing product failures due to incumbent power supply vendor quality (fraying cables). The CEC's engineering team provides rapid problem identification. EMC, EMI and thermal issues are the most common challenges that occur when integrating power products into a system.

SOLUTION

The customer visited Advanced Energy's CEC in Sharon, MA, United States to conduct analysis and testing. Analyses of the system allowed the AE team to pinpoint the issues and to pre-validate EMI performance on a system level. Advanced Energy's proposed solution was a customized ME20 Series of AC-DC external power adapter. A high-performance power supply designed for Medical applications, the ME20 is ideal for applications that are used in environments where AC mains power may be noisy or unstable and equipment shutdown is not an option.

The solution provided was a

- Custom molded ME20 enclosure (pole mounting clip)
- IP67 rating
- Customer branded pantone colors



RESULT

Infusion pumps require a reliable and consistent source of power, making the selection of a suitable power supply an essential consideration. Designing a custom solution for this equipment we had to consider several important factors, such as power requirements, reliability, safety, size and weight, efficiency, and compatibility. By working closely with the customer to create a unique solution we earned customer goodwill for long term by partnering in their difficult phase of product launch. The customer also extended the existing AE power source in their future designs.



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