

Transforming Patient Care: Unleashing the Potential of SLE60 Series USB-PD Adapters

INDUSTRY**Medical****SOLUTION****SL Power SLE60 Series****APPLICATION****Patient Care****CHALLENGE**

The customer was in search of a USB-C PD 3.0 power solution equipped with an integrated DC output cable and interchangeable AC blades for their patient care device. They also required the cable to be of the maximum length possible. Although initially these devices were intended for use in doctor's offices, the ultimate goal was to have them available on the shelves at a North American pharmacy chain. The projected volume for the first year was in the thousands, with long-term potential reaching 25 to 50K units if the product successfully transitioned to consumer markets.

SOLUTION

Advanced Energy's (AE) engineering team proposed the SLE60SPD96B01, a modified version of the SLE series, to the customer. AE provided a white wall mount SLE60SPD adapter with a 1.2 m fixed output cable featuring a USB type C connector (which later extended to 1.5 m). The customer has been testing the sample, and it has been working perfectly for their intended application.

The SLE60SPD series offers the following features:

- Meets medical and ITE safety approvals
- 2 MOPP input to output isolation
- Less than 100 uA leakage current
- Less than 0.21 W standby power
- Energy Level VI compliant
- 5 V / 9 V / 12 V / 15 V / 20 V outputs
- 5000 m operating altitude
- Mechanical outline wall mount option with interchangeable plugs, USB port or fixed cable design.
- Meets USB PD3.0, QC3.0, QC20



RESULT/ CONCLUSION

The customer is currently sampling the SLE60 and all tests have been successful. The requirement for a USB PD 3.0 adapter that could support their power-hungry device was met by the SLE60SPD adapter. The customizable enclosure color and cable options provided the aesthetic requirements needed for their product marketing.



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