IEEE std 2405-2022 updates and replaces NEMA PE5

Utility battery chargers for stationary battery installations are critical to maximize battery life while supporting the continuous loads on the dc system. This new standard is applicable to battery chargers used for stationary applications. It is written to serve as a bridge between the utility application engineer and the charger manufacturer.

Over 10 years ago, Art Salander had a vision that the established NEMA PE5 standard needed to become an IEEE standard, too. As such he met with both the NEMA and IEEE committees to broker a deal where these two industry giants would work together to create a harmonized document. The MOU was signed between the IEEE and NEMA on December 12th, 2013, and now we all can benefit from the result of this effort!

The IEEE std 2405-2022 was approved on 21 September 2022 and replaces NEMA PE5. Art Salander, Chairmen of IEEE std 2405-2022, working group, announced that he is thrilled about all the hard work and dedication his co-chair, secretary and the entire group provided. The new document provides a substantial number of updates and clarifications that have been desired by the industry.

Perhaps one of the most notable changes involves filtering. The language is now much clearer. We no longer use terms like filtered eliminator. Rather, we refer to filtering in terms of levels. This change in terminology creates a true consistency across the industry as to how we express and understand filtering. Manufacturers may now perform all filtering tests using a resistive load. This allows for accurate and consistent reporting of the charger's performance.

Other document references including alarms, communications systems etc., are all part of the new standard. There are clear definitions of terms too. The industry will benefit from this new standard, and we recommend that all specifiers get a copy. **To purchase your copy of IEEE std 2505-2022 please visit the IEEE web site, https://standards.ieee.org/ieee/2405/5845/**

If you have questions about the document, please feel free to reach out to Art Salander directly at HindlePower, using his contact information below.
Thanks, stay safe and …

Best regards,
Art Salander

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