

TA15 Response to AGS Request for Comment on 100ags524 Wireless Power

20May2014

TA15 Reviewed and Approved

1

Background

- 100ags540
 - AGS Recommendations 33rd meeting held Wednesday, 5-June-2013 London
 - Item #14. AGS recommends Dr. Grajski and Dr. Lim to prepare response on TC100 interests in the future wireless power transfer, and TC100 Secretary to forward it to SMB Chairman.
- 100ags524
 - Wireless Power Presentation from Daryll Fogal (Eaton) for MSB May 2013 meeting

TA15 Comment on 100ags524 Points

- Present Market Situation
 - 524: Close-range application (small electronics, electric vehicles) drivers convenience & safety
 - TA15: Although both are close-range, small electronics and electric vehicles have several orders of magnitude differences in power requirements (e.g., W vs kW)
- Present Standards Situation
 - 524: Lists a multiplicity of “existing standards”
 - TA15: While there is a multiplicity of existing applicable Regulatory standards for WPT, there are as yet no completed SDO-drafted technical or interoperability standards for small electronics WPT; however, there are multiple industry consortium based efforts underway

TA15 Comment on 100ags524 Points

- Future Market Opportunities
 - 524: There are WPT use cases where the power source and load are widely separated (meters to kilometers to tens and hundreds of kilometers) (with widely differing power requirements)
 - TA15: Indeed, even for use cases within scope of TC 100, there are applications with relative wide separation, but likely limited to the order of 10's of meters (e.g., room-sized)

TA15 Comment on 100ags524 Points

- **Future Standards Needs**
 - 524: Lasers and microwaves likely applicable technologies
 - TA15: TA15 is technology-neutral and welcomes contributions relating to WPT regardless of short-range or long-range, but preferably for use cases within scope of TC 100 (e.g., multimedia equipment and systems)
 - 524: Standards topics are broad-ranging
 - TA15: TA15 is open to within-scope contributions, such as on technical and interoperability standards and will seek liaisons and cooperation on related WPT standards, e.g., Regulatory, Environmental, etc.

Summary of Recommendations

- IEC Project Recommendations
 - 524: To assess potential worldwide application needs for wireless power
 - TA15: Stage 0 WPT TR may partially address but within scope of TC 100.
 - 524: To identify the trends in related technologies and markets
 - TA15: See above
 - 524: To review and assess the associated technologies
 - TA15: See above. In addition, TA15 welcomes contributions of an introductory or expository nature on WPT associated technologies.
 - 524: To evaluate the standards needed to support widespread commercialization of wireless power
 - TA15: See above. In addition, TA15 welcomes contributions on this topic while noting that no all necessary standards may be within scope of TA15.

Next Steps

- TA15
 - Forward to TC 100 Secretary for subsequent forwarding to SMB Chairman
 - Immediately following Seattle May 2014 project meeting
- TC 100 Secretary
 - Kindly forward to SMB Chairman for information

Thank You