For research article

Response to Reviewer 5 Comments

1. Summary

Thank you very much for taking the time to review this manuscript. Please find the detailed responses below and the corresponding revisions/corrections highlighted/in track changes in the re-submitted files.

2. Questions for General Evaluation	**Reviewer's Evaluation**	**Response and Revisions**
Does the introduction provide sufficient background and include all relevant references?	Yes/Can be improved/Must be improved/Not applicable	
Are all the cited references relevant to the research?	Yes/Can be improved/Must be improved/Not applicable	
Is the research design appropriate?	Yes/Can be improved/Must be improved/Not applicable	
Are the methods adequately described?	Yes/Can be improved/Must be improved/Not applicable	
Are the results clearly presented?	Yes/Can be improved/Must be improved/Not applicable	
Are the conclusions supported by the results?	Yes/Can be improved/Must be improved/Not applicable	

3. Point-by-point response to Comments and Suggestions for Authors

Comments 1: *[The paper necessitates a comprehensive revision to rectify the English language's typographical flaws and grammatical inaccuracies like, and not limited to in the abstrct "both the" this allows" is a new sentence.]*

Response 1: [*Thank you for your careful reading. The sentences of the paper have been revised carefully.]*

Comments 2: *[Rewrite the abstract to highlight the presented work.]*

Response 2: [*Thank you for your careful suggestions. The abstract has been rewritten carefully, according to the suggestions.]* The corresponding changes in the abstract can be seen in *[sentences from page 1 no 7 to no 18.]*

Comments 3: *[The abstract serves as a concise summary that presents overlooked aspects without emphasizing the research conducted.]*

Response 3: [*Thank you for your careful suggestions. The abstract has been rewritten carefully, according to the suggestions.]* The corresponding changes in the abstract can be seen in *[sentences from page 1 no 7 to no 18.]*

Comments 4: *[It is advisable to incorporate a concise overview of the findings in the abstract*

section.]

Response 4: [*Thank you for your careful suggestions. The abstract has been rewritten carefully, according to the suggestions.]* The corresponding changes in the abstract can be seen in *[sentences from page 1 no 7 to no 18.]*

Comments 5: *[The paper does not sufficiently highlight the discrepancy between the current body of literature and the work being presented.]*

Response 5: [*Thank you for your careful suggestions. According to your suggestions, the discrepancy between the paper and other works has been heightened in the conclusion.]* The corresponding changes can be seen in *[sentences from page 14 no 355 to no 366.]*

Comments 6: *[The review lacks completeness and might benefit from the inclusion of further related work.]*

Response 6: [*The review has been rewritten carefully, according to the suggestions.]* The corresponding changes can be seen in *[sentences from page 13 no 341 to no 352.]*

Comments 7: *[Figure 6. Control strategy of the proposed equalizer" is not clear and confusing; please redraw it as one col. not three.]*

Response 7: [*Thank you for your careful suggestions. The control strategy has been redrawn carefully.]*

Comments 8: *[Sources or references for all equations should be added.]*

Response 8: [*Thank you for your careful suggestions. The source of all equations in the paper has been added to this work.]*

Comments 9: *[The y-axis title of Figure 10 should be rotated.]*

Response 9: [*Thank you for your careful reading. The Figure 10 has been revised according to the suggestion.]*

Comments 10: *[The simulation results should be added.]*

Response 10: [*Thank you for your careful suggestions. The simulation results have been added to this work in the form of figure.]* The corresponding changes in the paper can be seen in *[sentences from page 10 no 274 to no 278.]*

Comments 11: *[In the case of two different types of batteries, is the proposed method is valid?]*

Response 11: [*Thank you for your careful suggestions. The experiment batteries have the same capacity, just different packages.]*

Comments 12: *[What about the cost-effective study of the proposed system?]*

Response 12: [*Thank you for your careful suggestions. Cost-effective means the number of energy storage components used for an equalizer is whether high.]*