CLAIMS

1. A wireless power transfer method, applied to a first ambient power AMP apparatus, wherein the method comprises:

sending a wireless power transfer WPT setup request through a wireless local area network WLAN communication link, wherein the WPT setup request indicates that the first AMP apparatus requests to set up a WPT link; and

receiving a WPT setup response, wherein the WPT setup response indicates whether the WPT link is successfully set up.

2. The method according to claim 1, wherein the method further comprises:

sending a WPT report, wherein the WPT report is used to report WPT status information of the first AMP apparatus.

3. The method according to claim 2, wherein the method further comprises:

receiving a WPT report request before sending the WPT report, wherein the WPT report request is used to request the WPT report.

4. The method according to claim 2, wherein the method further comprises:

sending the WPT report when the first AMP apparatus generates a WPT alert or no longer needs a WPT signal, wherein the WPT report indicates that the first AMP apparatus generates a WPT alert or no longer needs a WPT signal.

5. The method according to any one of claims 1 to 4, wherein the method further comprises:

receiving WPT teardown, wherein the WPT teardown is used to notify the first AMP apparatus that a WPT process is to be stopped; and

sending an ACK, wherein the ACK indicates that the first AMP apparatus has received the WPT teardown.

6. The method according to claim 1, wherein the WPT setup request comprises at least one of the following fields:

a category field, a WPT action field, a WPT setup parameter field, and a WPT status control field, wherein

the category field indicates that a category of the WPT setup request is WPT category information;

the WPT action field indicates that an action type corresponding to the WPT action field is the WPT setup request;

the WPT setup parameter field indicates a parameter used for setting up the WPT link; and

the WPT status control field indicates WPT status information to be reported in a WPT report.

7. The method according to claim 6, wherein the WPT setup parameter field comprises at

least one of the following fields:

a WPT frequency range field, a WPT modulation field, and a WPT duration field, wherein the WPT frequency range field indicates a frequency range used in a WPT process;

the WPT modulation field indicates a modulation scheme used in the WPT process; and

the WPT duration field indicates a time length for which the WPT process lasts.

8. The method according to claim 6, wherein the WPT status control field comprises at least one of the following fields:

whether to report a direct current voltage output by a rectifier of the first AMP apparatus;

whether to report a voltage of an energy storage of the first AMP apparatus;

whether to report a power received by the first AMP apparatus; and

whether to report a temperature of the first AMP apparatus.

9. A wireless power transfer method, applied to a third ambient power AMP apparatus, wherein the method comprises:

receiving a WPT setup request through a wireless local area network WLAN communication link, wherein the WPT setup request is used to request to set up a WPT link; and

sending a WPT setup response, wherein the WPT setup response indicates whether the WPT link is successfully set up.

10. The method according to claim 9, wherein the method further comprises:

receiving a WPT report, wherein the WPT report is used to report WPT status information.

11. The method according to claim 10, wherein the method further comprises:

sending a WPT report request before receiving the WPT report, wherein the WPT report request is used to request to report the WPT status information.

12. The method according to claim 10, wherein the method further comprises:

stopping, by the third AMP apparatus, a WPT process when the WPT report indicates that a WPT alert is generated or a WPT signal is no longer needed.

13. The method according to any one of claims 9 to 12, wherein the method further comprises:

sending WPT teardown, wherein the WPT teardown indicates that the third AMP apparatus is to stop the WPT process;

receiving an ACK, wherein the ACK indicates that the WPT teardown has been received; and

stopping, by the third AMP apparatus, the WPT process.

14. An ambient power AMP apparatus, comprising a logic circuit and an interface, wherein the logic circuit is coupled to the interface; and

the interface is configured to: input and/or output information, and the logic circuit is configured to perform the method according to any one of claims 1 to 8, or the logic circuit is configured to perform the method according to any one of claims 9 to 13.

15. A computer-readable storage medium, wherein the computer-readable storage medium stores a computer program, and when the computer program is executed by a computer, the computer is enabled to perform the method according to any one of claims 1 to 13.