CLAIMS

1. An uplink transmission method, comprising:

determining, by a terminal device according to an expected sending power of each uplink among a plurality of uplinks, an actual sending power of the each uplink; and

sending, by the terminal device, signal on the each uplink using the actual sending power of the each uplink.

2. The method according to claim 1, wherein the determining, by a terminal device according to an expected sending power of each uplink among a plurality of uplinks, an actual sending power of the each uplink comprises:

determining the actual sending power of the each uplink by the terminal device according to the expected sending power of the each uplink and a maximum sending power of the terminal device (UE), wherein the maximum sending power of the UE is indicative of a maximum sending power available for the terminal device to simultaneously send signal on the plurality of uplinks.

3. The method according to claim 2, wherein the determining the actual sending power of the each uplink by the terminal device according to the expected sending power of the each uplink and a maximum sending power of the terminal device (UE) comprises:

determining, by the terminal device, a sending power obtained by multiplying the expected sending power of the each uplink by a same adjustment factor as the actual sending power of the each uplink if a sum of the expected sending power of the each uplink is greater than the maximum sending power of the UE, wherein a sum of the actual sending power of the each uplink is not greater than the maximum sending power of the UE; or

determining the actual sending power of the each uplink by the terminal device according to the expected sending power of the each uplink, the maximum sending power of the UE, and a priority of the each uplink.

4. The method according to claim 3, wherein the plurality of uplinks comprise a first uplink, a priority of the first uplink is higher than priorities of other uplinks, and the determining the actual sending power of the each uplink by the terminal device according to the expected sending power of the each uplink, the maximum sending power of the UE, and a priority of the each uplink comprises:

determining an expected sending power of the first uplink as an actual sending power corresponding to the first uplink if the expected sending power of the first uplink is not greater than the maximum sending power of the UE; or

determining the maximum sending power of the UE as the actual sending power corresponding to the first uplink if the expected sending power of the first uplink is greater than the maximum sending power of the UE.

5. The method according to claim 4, wherein the other uplinks comprise a second uplink, and the determining the actual sending power of the each uplink by the terminal device according to the expected sending power of the each uplink, the maximum sending power of the UE, and a priority of the each uplink comprises:

determining, if the expected sending power of the first uplink is not greater than the maximum sending power of the UE, an actual sending power of the second uplink as a part or all of a first power difference or as zero, wherein the first power difference is a difference value obtained by subtracting the actual sending power of the first uplink from the maximum sending power of the UE; or

determining the actual sending power of the second uplink as zero if the expected sending power of the first uplink is greater than the maximum sending power of the UE.

6. The method according to any one of claims 3 to 5, wherein the priority of the each uplink is configured by a network device or determined by the terminal device;

preferably, the priority of the each uplink is determined by the terminal device according to at least one of:

a data size of a downlink corresponding to the uplink, a physical uplink control channel (PUCCH) format used by the uplink, a channel type used by the uplink, a signal type of transmission of the uplink, a waveform used by the uplink, or a path loss of the uplink.

7. The method according to claim 1, wherein the each uplink among the plurality of uplinks respectively corresponds to a respective maximum sending power, and the determining, by a terminal device according to an expected sending power of each uplink among a plurality of uplinks, an actual sending power of the each uplink comprises:

determining the actual sending power of the each uplink by the terminal device according to the expected sending power of the each uplink and the respective maximum sending power corresponding to the each uplink.

8. The method according to claim 7, wherein the plurality of uplinks comprise a first uplink, and the determining the actual sending power of the each uplink by the terminal device according to the expected sending power of the each uplink and the respective maximum sending power corresponding to the each uplink comprises:

determining, by the terminal device, a first sending power as an actual sending power of the first uplink if an expected sending power of the first uplink is greater than a maximum

sending power corresponding to the first uplink, wherein the first sending power is not greater than the maximum sending power corresponding to the first uplink; or

determining, by the terminal device, the expected sending power of the first uplink as the actual sending power of the first uplink if the expected sending power of the first uplink is not greater than the maximum sending power corresponding to the first uplink.

9. A terminal device, comprising:

a determining module, configured to determine, according to an expected sending power of each uplink among a plurality of uplinks, an actual sending power of the each uplink; and

a communication module, configured to send signal on the each uplink using the actual sending power of the each uplink.

10. The terminal device according to claim 9, wherein the each uplink among the plurality of uplinks respectively corresponds to a respective maximum sending power and, if only a first uplink among the plurality of uplinks needs uplink transmission, the determining module is further configured to:

determine a first sending power as an actual sending power of the first uplink if an expected sending power of the first uplink is greater than a maximum sending power of the UE, wherein the first sending power is not greater than the maximum sending power of the UE; or

determine the expected sending power of the first uplink as the actual sending power of the first uplink if the expected sending power of the first uplink is not greater than the maximum sending power of the UE.

11. The terminal device according to claim 9, wherein the each uplink respectively corresponds to a respective maximum static power, and the determining module is further configured to:

determine the actual sending power of the each uplink according to the expected sending power of the each uplink and the respective maximum static power corresponding to the each uplink.

12. The terminal device according to claim 11, wherein the determining module is specifically configured to:

determine a first sending power as an actual sending power of a first uplink if an expected sending power of the first uplink is greater than a maximum static power corresponding to the first uplink, wherein the first uplink is included in the plurality of uplinks, the first sending power is equal to a sum of the maximum static power corresponding to the first uplink and a first adjustment amount, and the first adjustment amount is a part or

all of the dynamic power adjustment amount; or

determine the actual sending power of the each uplink according to the expected sending power of the each uplink, the respective maximum static power corresponding to the each uplink, and a priority of the each uplink.

13. The terminal device according to claim 12, wherein the plurality of uplinks comprise a first uplink and a second uplink, and the determining module is further configured to:

determine an actual sending power of the first uplink and an actual sending power of the second uplink according to an expected sending power of the first uplink, an expected sending power of the second uplink, a maximum static power corresponding to the first uplink, a maximum static power corresponding to the second uplink, a priority of the first uplink and a priority of the second uplink, if the expected sending power of the first uplink is greater than the maximum static power corresponding to the first uplink and the expected sending power of the second uplink is greater than the maximum static power corresponding to the second uplink;

preferably, the determining module is specifically configured to:

determine a first sending power as the actual sending power of the first uplink and determine a second sending power as the actual sending power of the second uplink if the priority of the first uplink is higher than the priority of the second uplink, wherein the first sending power is equal to a sum of the maximum static power corresponding to the first uplink and a first adjustment amount, the first adjustment amount is a part or all of the dynamic adjustment amount, and the second sending power is equal to a part or all of a first power difference obtained by subtracting the first sending power from the maximum sending power of the UE.

14. The terminal device according to claim 12 or 13, wherein the determining module is further configured to:

determine a part of the dynamic adjustment amount as the first adjustment amount if the expected sending power of the first uplink is less than a second power difference, wherein the second power difference is a power difference obtained by subtracting, from the maximum sending power of the UE, a sum of maximum static powers corresponding to uplinks among the plurality of uplinks other than the first uplink; or

determine all of the dynamic adjustment amount as the first adjustment amount if the expected sending power of the first uplink is not less than the second power difference.

15. The terminal device according to any one of claims 9 to 14, wherein carrier waves corresponding to the plurality of uplinks at least partially overlap in a frequency domain.