WHAT IS CLAIMED IS:

1. A method for determining a power parameter, performed by a terminal device and comprising:

acquiring power control information of a physical uplink shared channel (PUSCH); and

determining a power adjustment value corresponding to a transmitting power of the PUSCH according to the power control information.

~~2. The method according to claim 1, wherein acquiring the power control information for the PUSCH comprises:~~

~~receiving the power control information of the PUSCH sent by a network device; or~~

~~acquiring the power control information of the PUSCH according to a protocol agreement.~~

~~3~~2. The method according to claim 1~~ or 2~~, wherein the PUSCH is a PUSCH for a configure grant (CG) small data transmission (SDT).

~~4~~3. The method according to claim 1 or 2, wherein the power control information comprises ~~at least one selected from:~~

signal information configured to calculate a path loss compensation power value~~;~~

~~configuration information of an initial power component value;~~

~~indication information of whether to allow a cumulative power adjustment; and~~

~~configuration information of a dynamic power added value~~.

~~5~~4. The method according to any one of claims 1 to ~~4~~3, wherein the power adjustment value comprises ~~at least one selected from:~~

a path loss compensation power value~~;~~

~~an initial power component value;~~

~~a dynamic power adjustment value, the dynamic power adjustment value comprising an accumulated power value or an absolute power value; and~~

~~a dynamic power added value~~.

~~6~~5. The method according to claim ~~4~~ 3~~or 5~~, wherein the signal information configured to calculate the path loss compensation power value comprises ~~at least one selected from:~~

~~a synchronous signal block (SSB);~~

a reference signal associated with the PUSCH~~; and~~

~~a reference signal having a quasi-colocation relationship with the PUSCH~~.

~~7. The method according to any one of claims 4 to 6, wherein the configuration information of the initial power component value comprises at least one selected from:~~

~~a nominal power component value configured by the network device;~~

~~a terminal-specific power component value configured by the network device;~~

~~an initial power component value configured by the network device;~~

~~a nominal power component value used in a previous random access procedure;~~

~~an initial power component value used in the previous random access procedure;~~

~~a nominal power component value used in a current random access procedure; and~~

~~an initial power component value used in the current random access procedure.~~

~~8. The method according to any one of claims 4 to 7, wherein the indication information of whether to allow the cumulative power adjustment comprises:~~

~~an indication bit configured to indicate that a cumulative power adjustment value or an absolute power adjustment value is adopted.~~

~~9. The method according to any one of claims 4 to 8, wherein the configuration information of the dynamic power added value comprises at least one selected from:~~

~~a power value added per time; and~~

~~a maximum number of power additions.~~

~~10. The method according to any one of claims 4 to 9, wherein the indication information of whether to allow the cumulative power adjustment is indication information of allowing the cumulative power adjustment, and the indication information of allowing the cumulative power adjustment is configured to indicate that the cumulative power adjustment is configured for the PUSCH for the configure grant small data transmission.~~

~~11. The method according to any one of claims 5 to 10, wherein determining the path loss compensation power value comprises:~~

~~determining the path loss compensation power value according to a path loss value measured with a reference signal corresponding to an identifier of a reference signal configured to calculate the path loss compensation power value.~~

~~12. The method according to any one of claims 5 to 11, wherein determining the absolute power value comprises:~~

~~determining the absolute power value according to a transmission power control (TPC) command of the network device.~~

~~13. The method according to claim 12, wherein determining the accumulated power value comprises:~~

~~determining the accumulated power value according to a sum value of a dynamic power adjustment value of a previous transmission and an absolute power value of a current~~

transmission.

14.The method according to any one of claims 5 to 13, further comprising:

performing a rollback process on the dynamic power adjustment value when a first preset condition is satisfied.

15.The method according to claim 14, wherein the first preset condition comprises at least one selected from:

receiving a connection release message;

receiving a connection refused message;

receiving indication information of entering an idle state; and

receiving feedback information of successfully receiving data sent by the network device.

16. The method according to any one of claims 5 to 15, wherein determining the dynamic power added value comprises:

determining the dynamic power added value according to a product of the power value added per time and a number of the power additions.

17. The method according to any one of claims 5 to 16, further comprising:

determining the dynamic power added value when a second preset condition is satisfied.

18.The method according to claim 17, wherein the second preset condition comprises retransmitting transmitted data.

19.The method according to claim 18, wherein retransmitting the transmitted data comprises at least one selected from:

retransmitting the transmitted data on a PUSCH with a same configure grant (CG) resource as a previous transmission;

retransmitting the transmitted data by using a same hybrid automatic repeat request (HARQ) process as the previous transmission; and

retransmitting the transmitted data by using the same HARQ process as the previous transmission on the PUSCH with the same CG resource as the previous transmission.

20.The method according to any one of claims 17 to 19, further comprising:

performing a rollback process on the dynamic power added value when a third preset condition is satisfied.

21.The method according to claim 20, wherein the third preset condition comprises at least one selected from:

receiving a connection release message;

receiving a connection refused message;

~~receiving indication information of entering an idle state; and~~

~~receiving feedback information of successfully receiving data sent by the network device.~~

~~22~~6. A method for determining a power parameter, performed by a network device and comprising:

sending power control information of a physical uplink shared channel (PUSCH) to a terminal device, wherein the power control information is configured to determine a power adjustment value corresponding to a transmitting power of the PUSCH.

~~23~~7. The method according to claim ~~22~~6, wherein the power control information comprises ~~at least one selected from:~~

signal information configured to calculate a path loss compensation power value~~;~~

~~configuration information of an initial power component value;~~

~~indication information of whether to allow a cumulative power adjustment; and~~

~~configuration information of a dynamic power added value~~.

~~24~~8. The method according to claim ~~22~~ 6 or 7~~23~~, wherein the PUSCH is a PUSCH for a configure grant (CG) small data transmission (SDT).

~~25~~9. The method according to claim ~~22~~ 6 or 7~~23~~, wherein the power adjustment value comprises ~~at least one selected from:~~

a path loss compensation power value~~;~~

~~an initial power component value;~~

~~a dynamic power adjustment value, the dynamic power adjustment value comprising an accumulated power value or an absolute power value; and~~

~~a dynamic power added value~~.

~~26~~10. The method according to claim ~~24~~ 7~~or 25~~, wherein the signal information configured to calculate the path loss compensation power value comprises ~~at least one selected from:~~

~~a synchronous signal block (SSB);~~

a reference signal associated with the PUSCH~~; and~~

~~a reference signal having a quasi-colocation relationship with the PUSCH~~.

~~27. The method according to any one of claims 23 to 26, wherein the configuration information of the initial power component value comprises at least one selected from:~~

~~a configured nominal power component value;~~

~~a configured terminal-specific power component value;~~

~~a configured initial power component value;~~

~~a nominal power component value used in a previous random access procedure;~~

~~an initial power component value used in the previous random access procedure;~~

~~a nominal power component value used in a current random access procedure; and~~

~~an initial power component value used in the current random access procedure.~~

~~28. The method according to any one of claims 23 to 27, wherein the indication information of whether to allow the cumulative power adjustment comprises:~~

~~an indication bit configured to indicate that a cumulative power adjustment value or an absolute power adjustment value is adopted.~~

~~29. The method according to any one of claims 23 to 28, wherein the configuration information of the dynamic power added value comprises at least one selected from:~~

~~a power value added per time; and~~

~~a maximum number of power additions.~~

~~30. The method according to any one of claims 23 to 29, wherein the indication information of whether to allow the cumulative power adjustment is indication information of allowing the cumulative power adjustment, and the indication information of allowing the cumulative power adjustment is configured to indicate that the cumulative power adjustment is configured for the PUSCH for the configure grant small data transmission.~~

~~31. The method according to any one of claims 25 to 30, wherein the path loss compensation power value is determined according to a path loss value measured with a reference signal corresponding to an identifier of a reference signal configured to calculate the path loss compensation power value.~~

~~32. The method according to any one of claims 25 to 31, wherein the absolute power value is determined according to a transmission power control (TPC) command of the network device.~~

~~33. The method according to claim 32, wherein the accumulated power value is determined according to a sum value of a dynamic power adjustment value of a previous transmission and an absolute power value of a current transmission.~~

~~34. The method according to any one of claims 25 to 33, wherein the terminal device satisfies a first preset condition, and the dynamic power adjustment value is a value after performing a rollback process.~~

~~35. The method according to claim 34, wherein the first preset condition comprises at least one selected from:~~

~~receiving a connection release message;~~

~~receiving a connection refused message;~~

receiving indication information of entering an idle state; and

receiving feedback information of successfully receiving data sent by the network device.

36. The method according to any one of claims 25 to 35, wherein the dynamic power added value is determined according to a product of the power value added per time and a number of the power additions.

37. The method according to any one of claims 25 to 36, wherein the dynamic power added value is determined when the terminal device satisfies a second preset condition.

38. The method according to claim 37, wherein the second preset condition comprises retransmitting transmitted data.

39. The method according to claim 38, wherein retransmitting the transmitted data comprises at least one selected from:

retransmitting the transmitted data on a PUSCH with a same configure grant (CG) resource as a previous transmission;

retransmitting the transmitted data by using a same hybrid automatic repeat request (HARQ) process as the previous transmission; and

retransmitting the transmitted data by using the same HARQ process as the previous transmission on the PUSCH with the same CG resource as the previous transmission.

40. The method according to any one of claims 37 to 39, wherein the terminal device satisfies a third preset condition, and the dynamic power added value is a value after performing a rollback process.

41. The method according to claim 40, wherein the third preset condition comprises at least one selected from:

receiving a connection release message;

receiving a connection refused message;

receiving indication information of entering the idle state; and

receiving feedback information of successfully receiving data sent by the network device.

42. An apparatus for determining a power parameter, comprising:

a transceiving module configured to acquire power control information of a physical uplink shared channel (PUSCH); and

a processing module configured to determine a power adjustment value corresponding to a transmitting power of the PUSCH according to the power control information.

43. An apparatus for determining a power parameter, comprising:

a transceiving module configured to send power control information of a physical uplink

~~shared channel (PUSCH) to a terminal device, wherein the power control information is configured to determine a power adjustment value corresponding to a transmitting power of the PUSCH.~~

~~44~~11. A ~~communication~~ terminal device, comprising:

a processor, and

a memory for storing a computer program,

wherein the processor is configured to execute the computer program stored in the memory, to cause the ~~communication~~ terminal device to implement the method according to any one of claims 1 to ~~21~~5.

~~45~~12. A ~~communication~~ network device, comprising:

a processor, and

a memory for storing a computer program,

wherein the processor is configured to execute the computer program stored in the memory, to cause the network~~communication~~ device to implement the method according to any one of claims ~~22~~ 6 to ~~41~~10.

~~46. A communication device, comprising a processor and an interface circuit,~~

~~wherein the interface circuit is configured to receive code instructions and transmit them to the processor; and~~

~~the processor is configured to run the code instructions to implement the method according to any one of claims 1 to 21.~~

~~47. A communication device, comprising a processor and an interface circuit,~~

~~wherein the interface circuit is configured to receive code instructions and transmit them to the processor; and~~

~~the processor is configured to run the code instructions to implement the method according to any one of claims 22 to 41.~~

~~48~~13. A non-transitory computer-readable storage medium for storing instructions that, when executed, cause the method according to any one of claims 1 to ~~21~~ 5 to be implemented.

~~49~~14. A non-transitory computer-readable storage medium for storing instructions that, when executed, cause the method according to any one of claims ~~22~~ 6 to ~~41~~ 10 to be implemented.