CLAIMS:

1. A system comprising:

one or more electronic components;

a battery to supply power to the one or more electronic components; and

a charger coupled to the battery, the charger including:

a charge cycle initiator to place the battery in a first constant voltage charging mode at a first predetermined voltage threshold at a beginning of a charging cycle;

a current decrease unit to monitor a diminishing current of the battery while the battery is in the first constant voltage charging mode at the beginning of the charging cycle; and

a mode modifier to place the battery in a constant current charging mode when the diminishing current falls to a first predetermined current threshold,

wherein the mode modifier is to place the battery in a second constant voltage charging mode at an end of the charge cycle in response to a rising voltage reaching a second predetermined voltage threshold different from the first predetermined voltage threshold.

2. The system of claim 1, wherein the charger further includes a voltage increase unit to monitor a rising voltage of the battery while the battery is in the constant current charging mode.

3. The system of claim 1, wherein the charger further includes a charge current adapter to adjust a charge current corresponding to the constant current charging mode based on a charge capacity of the battery.

4. The system of claim 3, wherein the charge current adapter is to maintain a constant C-rate for the battery.

5. The system of claim 4, wherein the charge current adapter includes:

a capacity initializer to determine an initial full-charge capacity of the battery prior to an initial charge cycle;

a current initializer to determine an initial charge current setting for the battery; and

a C-rate unit to determine the constant C-rate based on the initial full-charge capacity and the initial charge current setting.

6. The system of claim 5, wherein the charge current adapter further includes a capacity monitor to determine a subsequent full-charge capacity of the battery after the initial charge cycle, wherein the charge current is to be adjusted based on the subsequent full-charge capacity and the constant C-rate.

7. A method comprising:

placing a battery in a first constant voltage charging mode at a first predetermined voltage threshold at a beginning of a charging cycle;

monitoring a diminishing current of the battery while the battery is in the first constant voltage charging mode at the beginning of the charging cycle; and

placing the battery in a constant current charging mode when the diminishing current falls to a first predetermined current threshold,

wherein the battery is placed in a second constant voltage charging mode at an end of the charge cycle in response to a rising voltage reaching a second predetermined voltage threshold different from the first predetermined voltage threshold.

8. The method of claim 7, further including:

monitoring a rising voltage of the battery while the battery is in the constant current charging mode.

9. The method of claim 7, further including adjusting a charge current corresponding to the constant current charging mode based on a charge capacity of the battery.

10. The method of claim 9, wherein adjusting the charge current includes maintaining a constant C-rate for the battery.

11. The method of claim 9, further including:

determining an initial full-charge capacity of the battery prior to an initial charge cycle;

determining an initial charge current setting for the battery; and

determining the constant C-rate based on the initial full-charge capacity and the initial charge current setting.

12. The method of claim 11, further including determining a subsequent full-charge capacity of the battery after the initial charge cycle, wherein the charge current is adjusted based on the subsequent full-charge capacity and the constant C-rate.

13. At least one non-transitory computer readable storage medium comprising a set of instructions which, when executed by a computing device, cause the computing device to:

place a battery in a first constant voltage charging mode at a first predetermined voltage threshold at a beginning of a charging cycle;

monitor a diminishing current of the battery while the battery is in the first constant

voltage charging mode at the beginning of the charging cycle; and

place the battery in a constant current charging mode when the diminishing current falls to a first predetermined current threshold,

wherein the battery is placed in a second constant voltage charging mode at an end of the charge cycle in response to a rising voltage reaching a second predetermined voltage threshold different from the first predetermined voltage threshold.

14. The at least one non-transitory computer readable storage medium of claim 13, wherein the instructions, when executed, cause a computing device to:

monitor a rising voltage of the battery while the battery is in the constant current charging mode.

15. The at least one non-transitory computer readable storage medium of claim 13, wherein the instructions, when executed, cause a computing device to adjust a charge current corresponding to the constant current charging mode based on a charge capacity of the battery.

16. The at least one non-transitory computer readable storage medium of claim 15, wherein the instructions, when executed, cause a computing device to maintain a constant C-rate for the battery.

17. The at least one non-transitory computer readable storage medium of claim 15, wherein the instructions, when executed, cause a computing device to:

determine an initial full-charge capacity of the battery prior to an initial charge cycle;

determine an initial charge current setting for the battery; and

determine the constant C-rate based on the initial full-charge capacity and the initial charge current setting.

18. The at least one non-transitory computer readable storage medium of claim 17, wherein the instructions, when executed, cause a computing device to determine a subsequent full-charge capacity of the battery after the initial charge cycle, wherein the charge current is adjusted based on the subsequent full-charge capacity and the constant C-rate.

19. An apparatus comprising:

a charge cycle initiator to place a battery in a first constant voltage charging mode at a first predetermined voltage threshold at the beginning of a charging cycle;

a current decrease unit to monitor a diminishing current of the battery while the battery is in the first constant voltage charging mode at the beginning of the charging cycle; and

a mode modifier to place the battery in a constant current charging mode when the diminishing current falls to a first predetermined current threshold,

wherein the mode modifier is to place the battery in a second constant voltage charging mode at an end of the charge cycle in response to a rising voltage reaching a second predetermined voltage threshold different from the first predetermined voltage threshold.

20. The apparatus of claim 19, further including a voltage increase unit to monitor a rising voltage of the battery while the battery is in the constant current charging mode.

21. The apparatus of claim 19, further including a charge current adapter to adjust a charge current corresponding to the constant current charging mode based on a charge capacity of the battery.

22. The apparatus of claim 21, wherein the charge current adapter is to maintain a constant C-rate for the battery.

23. The apparatus of claim 21, wherein the charge current adapter includes:

a capacity initializer to determine an initial full-charge capacity of the battery prior to an initial charge cycle;

a current initializer to determine an initial charge current setting for the battery; and

a C-rate unit to determine the constant C-rate based on the initial full-charge capacity and the initial charge current setting.

24. The apparatus of claim 23, wherein the charge current adapter further includes a capacity monitor to determine a subsequent full-charge capacity of the battery after the initial charge cycle, wherein the charge current is to be adjusted based on the subsequent full-charge capacity and the constant C-rate.

25. The apparatus of claim 19, wherein the charge cycle initiator is to place the battery in the first constant voltage charging mode in response to an initial burst charge causing a voltage of the battery to reach a level corresponding to the first constant voltage charging mode.