## SUMMARY OF THE TECHNOLOGY

[0004] A modular and portable charging station according to various aspects of the present technology may include a main chassis body that is fully assembled at one location and then transferred as a whole to a desired location and placed into operation without the need for significant site modification, or connection to the electric power grid. The interior of the main chassis body may contain one or more removable charging stations and at least one removable battery bank. The battery bank provides each charging station with electrical power to charge a vehicle battery system. The portable charging station may comprise its own onboard power supply configured to use renewable sources to maintain a charge to the battery bank. The portable charging station may also be configured to be connected to a local power source that is connected to the local power grid. A power management system monitors the charge level of the battery bank and is able to select an appropriate method of recharge.

[0004a] An aspect of the present disclosure provides a modular charging station, comprising:

a main chassis body, comprising:

a charging station interface positioned along an outer surface of the main chassis body; and

an input power terminal;

a charging station positioned on a first movable sub-chassis disposed within the main chassis body and electrically connected to the charging station interface;

a battery bank positioned on a second movable sub-chassis disposed within the main chassis body and electrically connected to the input power terminal and the charging station; and

a power management system disposed within the main chassis body and electrically connected to the charging station and the battery bank.

[0004b] Another aspect of the present disclosure provides a modular charging station, comprising:

a main chassis body, comprising:

a first charging station interface positioned along an outer surface of the main chassis body;

a second charging station interface positioned along an outer surface of the main chassis body; and

an input power terminal;

a first charging station positioned on a first movable sub-chassis disposed within the main chassis body and electrically connected to the first charging station interface;

a second charging station positioned on a second movable sub-chassis disposed within the main chassis body and electrically connected to the second charging station interface;

a battery bank positioned on a third movable sub-chassis disposed within the main chassis body and electrically connected to the input power terminal and the first and second charging stations;

a renewable power generation system connected to an outside surface of the main chassis body and electrically connected to the battery bank via the input power terminal; and

a power management system disposed within the main chassis body and electrically connected to the first and second charging systems and the battery bank.

## BRIEF DESCRIPTION OF THE DRAWINGS

[0005] A more complete understanding of the present technology may be derived by referring to the detailed description and claims when considered in connection with the following illustrative figures. In the following figures, like reference numbers refer to similar elements and steps throughout the figures.

[0006] Figure 1 representatively illustrates a block diagram of a modular charging system in accordance with an exemplary embodiment of the present technology;

[0007] Figure 2 representatively illustrates a block diagram of a modified modular charging system in accordance with an exemplary embodiment of the present technology;