

Abstract

Provided is a charging system for a swapping station or an energy storage station. The charging system comprises at least two charging modules (101, 102, 201, 202, b1, d1, d2, d3, d4), battery charging ports (104, 105), and a control module (103, 203), wherein the at least two charging modules (101, 102, 201, 202, b1, d1, d2, d3, d4) are connected in parallel; and the control module (103, 203) is used for calling different numbers of charging modules (101, 102, 201, 202, b1, d1, d2, d3, d4) and/or controlling the output power of each of the charging modules (101, 102, 201, 202, b1, d1, d2, d3, d4), and for charging quick-swap batteries (106, 107, 207, 208, 209, BAT1, BAT2, BAT3, BAT4) by means of the battery charging ports (104, 105). Different numbers of charging modules (101, 102, 201, 202, b1, d1, d2, d3, d4) are called according to the different charging requirements of batteries, and the output power of the charging modules (101, 102, 201, 202, b1, d1, d2, d3, d4) can also be controlled according to the different charging requirements of the batteries, such that the batteries with high charging requirements can be efficiently and quickly charged, electric energy can be rationally distributed, and the charging efficiency can be improved.

Figure 1