

# A BATTERY CHARGING AND DISCHARGING DEVICE AND A RECHARGEABLE POWER SUPPLY

## ABSTRACT

A battery charging and discharging device, comprising a power conversion unit configured to perform electrical conversion; a connecting end of the energy storage battery pack configured to connect an energy storage battery pack; a connecting end of charging and discharging configured to connect a charging power supply or a device to be charged or a load; a first charging switch and a second charging switch arranged in the connection line between the connecting end of charging and discharging and the input of the power conversion unit, and the connection line between the output of the power conversion unit and the connecting end of the energy storage battery pack respectively; and a first discharging switch and a second discharging switch arranged in the connection line between the connecting end of the energy storage battery pack and the input of the power conversion unit, and the connection line between the output of the power conversion unit and the connecting end of charging and discharging respectively. The disclosure also relates to a rechargeable power supply. Through the disclosure, may significantly reduce the cost of the device, cable and installation required by the charging and discharging device, thereby significantly reducing its total cost.

(Fig. 2)