

SMART POWER DISTRIBUTION SYSTEM FOR ELECTRIC VEHICLES

Abstract

5 The present application discloses a smart power distribution system for electric vehicles (EV) (50), characterized by: one or a plurality of EV charger (40) for charging electric vehicles (50) ; a controller (20), which communicates with the EV chargers (40), and is used for performing charging management of the said one or a plurality of EV charger (40), all EV chargers (40) managed by the controller (20) constitute a smart power
10 distribution network, and the said controller (20) uses a preset power load balance method to control the charging power of all EV chargers (40) in the said smart power distribution network; and a back end server (10), which communicates with the controller (20) , and is used to prepare the charging service for the controller (20). The smart power distribution system for EV (50) of the present application manages EV
15 chargers (40) through a controller (20), and uses a power load balance method to control the charging power of each EV charger (40), thereby improving the power distribution efficiency and enabling more EV chargers (40) to be installed in the car park.

Figure 1